

Curriculum Vitae

PERSONAL

Name Dr Ioanna Dionysiou

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Cyprus

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Web Site www.isl.unic.ac.cy

Languages Greek (native), English (fluent)

EDUCATION

Jul. 2006 **PhD Computer Science**, Washington State University (USA)
Thesis: *Dynamic and Composable Trust for Indirect Interactions*.
Advisor: Dr David Bakken

May 2000 **MSc Computer Science**, Washington State University (USA)
Thesis: *A Formal Semantics for Programmable Access Control*.
Advisor: Dr John Hale

Dec. 1997 **BSc Computer Science**, Washington State University (USA)

May 1994 **Diploma in Computer Science**, Higher Technical Institute (Cyprus)
Thesis: *Development of an Interactive Courseware Package for the Pascal Language*
Advisor: Mr Christos Makarounas

PROFESSIONAL EXPERIENCE

Associate Professor

Jan. 2013 – present Department of Computer Science, School of Sciences and Engineering,
University of Nicosia, Cyprus

Assistant Professor

- Sept. 2007 – Dec. 2012 Department of Computer Science, School of Sciences, University of Nicosia, Cyprus
- Oct. 2006 – Aug. 2007 Department of Computer Science, School of Sciences and Engineering, Intercollege, Cyprus

Adjunct Faculty

- Jan. 2010 – Jan. 2014 School of Electrical Engineering and Computer Science, Washington State University, USA

Research Fellow

- Jun. 2009 – Aug. 2009 School of Electrical Engineering and Computer Science, Washington State University, USA

Research Assistant

- Aug. 2005 – May 2006 WSU GridStat Group under US National Science Foundation Grant (Trustworthy Cyber Infrastructure for the Power Grid). Researching and designing a trust management system for indirect interactions.
- Jan. 2003 – Dec. 2004, Jan. 2002 – Dec. 2002 WSU GridStat Group under US National Science Foundation Grant (Critical Infrastructure Protection Program), in a subcontract to Schweitzer Engineering Labs Inc. Researching and designing a trust management system for indirect interactions.
- Jan. 2000 – May 2000 WSU Center for Teaching and Learning. Involved in the early stages of designing an interactive collaborative environment for online courses.

Teaching Assistant

- Aug. 2003 – Dec. 2003 School of Electrical Engineering and Computer Science, WSU. Provided laboratory instruction in advanced data structures and C++ programming language.
- Jan. 1998 – Dec. 1998, Aug. 1999 – Dec. 1999 School of Electrical Engineering and Computer Science, WSU. Provided laboratory instruction in introductory programming courses and software engineering courses.

Instructor

- Jan. 2003 – May 2003 School of Electrical Engineering and Computer Science, WSU. Instructor for advanced data structures course (CPTS-122) with 100 students enrolled. Responsible for organizing and preparing lectures, laboratory exercises, homework, project assignments and exams. Three teaching assistants were assigned to help the instructor.

Software Developer

- May 2001 – Aug. 2001 TriGeo Network Security, Post Falls, USA (www.trigeo.com). Responsible for the design of the communication layer of a hierarchical intrusion detection management system.
- Jan. 1994 – Jun. 1994 CyberKids, Cyprus. Part of the mandatory practical training required to fulfill diploma requirements. Hands-on experience with MAC OS and multimedia applications.

Laboratory Assistant

- Aug. 1994 – Jun. 1995 Higher Technical Institute, Cyprus. Hired as a laboratory assistant to assist students with the development of programs implemented in Pascal, COBOL, and C.

RESEARCH INTERESTS AND MEMBERSHIPS

Area of Expertise

Security in distributed systems, trust modeling and management in collaborative environments, active defense, cybercrime

Professional Associations

- IEEE, member
- IEEE Computer Society, member
- IEEE Women in Engineering, member
- ACM, member
- ACM-W, member
- Society of Women Engineers, member
- Association for Information Systems, member
- Cyprus Computer Society, full member
- International Information Systems Security Certification Consortium (ISC)², Cyprus charter

European Science Foundation (ESF) Cooperation in Science and Technology (COST)

- ICT Action IC0801 Agreement Technologies, WG5 Trust (2009 – 2012)

Association for Information Systems, Cyprus charter

- Vice-President, Innovation (March 2010 - present)

CEN/CENELEC/ETSI Cyber Security Coordination Group (CSCG)

- Cyprus Representative (September 2013 - present)

ACM, Cyprus charter

- Treasurer (February 2015 - present)
- Vice-Chair (May 2010 - January 2015)

ISACA, Cyprus charter

- Academic Advocate for University of Nicosia (July 2014 - present)

(ISC)2, Cyprus charter

- (ISC)2 Infosec Awareness Committee (April 2015 - present)

FUNDING

Research Grants

- 177,099.60 € (allocated budget for CCS partner), Independent Researcher under Cyprus Computer Society (CCS), "Building Enterprises - Wireless and Internet Security in European Regions (Be Wiser)", FP7-Regions-2012-2013-1, REGIONS-2012-2013-1: Transnational co-operation between regional research-driven clusters, July 2013 - June 2016, duration: 36 months
- 99,164 €, Host Organization Researcher, "ReProTool, A Software Tool for the ECTS and Bologna Process Re-engineering of University Programmes", Cyprus Research Promotion Foundation, DESMI 2009-2010, 1/2/2012 – 71/7/2013 (ranked first in its category)
Role: Work Package Leader for WP3 - Identification of User and System Requirements, WP4 - System Analysis and Design
- \$15000, CT-CS: Trustworthy Cyber Infrastructure for the Power Grid (TCIP), National Science Foundation (Grant CNS 05-24695), Research Fellow (with co-PI privileges), Washington State University, Jun 2009 – Aug 2009
- \$7500, Status Dissemination Security, Trigeo Network Security Company, Aug. 2001 – Dec. 2001

Travel Grants

- 1500 €, Financial Support for Faculty Development, University of Nicosia, AY 2013–2014
- 1800 €, Financial Support for Faculty Development, University of Nicosia, AY 2010–2011
- \$1000, Financial Support for Attending Talaris Grass Roots Round Table on CyberSecurity, Pacific Northwest National Laboratory, Aug. 2009
- 1200 €, Financial Support for Faculty Development, University of Nicosia, Jul. 2008

- 1200 €, Financial Support for Faculty Development, University of Nicosia, Sept. 2007
- \$650, Graduate and Professional Student Association Travel Grant, WSU Graduate and Professional Student Association, Mar. 2002

PhD Funding

- US National Institute of Standards and Technology under Grant #60NANB1D0016 (Critical Infrastructure Protection Program), in a subcontract to Schweitzer Engineering Labs Inc October 2001 – May 2003, \$248,000 (allocated to WSU)
- US National Science Foundation under NSF Grant CCR-0326006 , August 2003 – August 2005, \$211,822 (allocated to WSU)
- US National Science Foundation under NSF Grant CNS-05-24695 (CT-CS: Trustworthy Cyber Infrastructure for the Power Grid) , August 2005 – August 2009, \$985,000 (allocated to WSU)

HONORS & AWARDS

Outstanding Leadership Award

Track Chair of Data and Applications Security, 6th IEEE International Symposium on Cyberspace Safety and Security (CSS 2014), Paris, France, August 20 – 22, 2014

Demonstration Finalist

Philippos Pouyioutas, Harald Gjermundrod, Ioanna Dionysiou, Vasilis Rigas, and Euclid Keramopoulos, "The Student Module of ReProTool - Allowing Student Input in ECTS Re-engineering of University Programmes", International Conference Computers and Advanced Technology in Education (CATE 2012), Napoli, Italy, June 25 – 27, 2012

Poster Award, 3rd place

Philippos Pouyioutas, Harald Gjermundrod, and Ioanna Dionysiou, "REPROTOOL Version 1.0: Support for Learning Outcomes", UNICA seminar on " Recognition in Higher Education: how to make it work!", Tallinn, Estonia, June 7–9, 2010

Best Paper Award

Ioanna Dionysiou, Harald Gjermundrod, and Dave Bakken, "An Initial Approach on Adaptive Trust for Grid Environments", First Workshop on Computational Trust for Self-Adaptive Systems (Selftrust), pp. 719–722, Athens, Greece, November 15-20, 2009

Teaching Fellowship

WSU School of Electrical Engineering and Computer Science, Jan. 2003 – May 2003

Graduate and Professional Student Association Travel Grant

WSU Graduate and Professional Student Association, Mar. 2002

Teaching Assistant Nomination

Nominated for the 1999–2000 WSU Teaching Assistant Excellence Award

WSU President’s Honor Roll

Fall 1995, Spring 1996, Fall 1996, Spring 1997, and Fall 1997

PUBLICATIONS, PRESENTATIONS & INVITED TALKS

Doctoral Dissertation

Ioanna Dionysiou, "Dynamic and Composable Trust for Indirect Interactions", PhD Dissertation, ISBN 054286083X/9780542860836 , Washington State University, August 2006

Master Thesis

Ioanna Dionysiou, "A formal semantics for programmable access control", Master Thesis, Washington State University, May 2000

Book Chapters

1. David E. Bakken, Harald Gjermundrod, and Ioanna Dionysiou, "GridStat: High Availability, Low Latency and Adaptive Sensor Data Delivery for Smart Generation and Transmission", in *Smart Grids: Clouds, Communications, Open Source, and Automation*, CRC Press, Taylor & Francis Group, ISBN: 9781482206111, pp. 55–114, 2014
2. Ioanna Dionysiou, Angelika Kokkinaki, Skevi Magirou, and Theodosios Iacovou, "Adoption of ISO 27001 in Cyprus Enterprises: Current State and Challenges", in *IT Security Governance Innovations: Theory and Research*, IGI Global, pp. 131–154, 2012
3. Despo Ktoridou, Nikleia Eteokleous, and Ioanna Dionysiou, "Google’s Applications for Undergraduate University Courses: Tools for Sharing, Communication and Collaboration", in *Didactic Strategies and Technologies for Education: Incorporating Advancements*, IGI Global, pp. 632–645, 2012
4. Ioanna Dionysiou and David Bakken, "Formalizing and Managing Activity-Aware Trust in Collaborative Environments", in "Trust Modeling and Management in Digital Environments: from Social Concept to System Development", Z. Yan, Ed. (Nokia Research Center, Finland), IGI Global, pp. 179–201, 2010

Journal Publications

1. Harald Gjermundrod and Ioanna Dionysiou, "A Conceptual Framework for Configurable Privacy-Awareness in a Citizen-Centric eGovernment", *International Journal of Electronic Government*, Volume 11, Issue 4, pp. 258–282, Inderscience, 2015

2. Philippos Pouyioutas, Harald Gjermundrod, and Ioanna Dionysiou, "ReProTool Version 2.0 Re-engineering Academic Curriculum Using Learning Outcomes, ECTS and Bologna Process Concepts", *Interactive Technology and Smart Education*, Volume 9, Issue 3, pp.136 – 152, ISSN: 1741- 5659, Emerald Publishers, 2012
3. Ioanna Dionysiou, Philippos Pouyioutas, Harald Gjermundrod, Chrystalla Miltiadou, and Theodora Ioannou, "A Technological Approach for Evaluating the Sustainability Performance of Housing Developments", *International Journal for Infonomics (IJI)*, Volume 5, Issue 1/2, pp. 557 – 567, ISSN: 1742 4712, Infonomics Society, 2012
4. Ioanna Dionysiou, "An investigation on compliance with ISO 27001 in Cypriot private and public organizations ", *International Journal of Services and Standards*, Vol. 7, Nos. 3/4, pp 197–234, Inderscience, 2011
5. Philippos Pouyioutas, Harald Gjermundrod, Ioanna Dionysiou, and Michalis Michael, "Mapping National Qualifications Frameworks and Awards using Map QFTool", *International Journal for Digital Society*, Volume 2, Issue 3, pp. 495 – 501, ISSN: 2040 2570, Infonomics Society, 2011
6. Ioanna Dionysiou and David E. Bakken, "A Conceptual Framework for Adaptive and Configurable Activity-Aware Trust in Collaborative Environments", *International Journal of Dependable and Trustworthy Information Systems (IJDTIS)*, vol. 1(1), pp 25–44, IGI-Global, 2010.
7. Carl H. Hauser, David E. Bakken, Ioanna Dionysiou, K. Harald Gjermundrod, Venkata S. Irava, Joel Helkey, and Anjan Bose, "Security, Trust and QoS in Next-generation Control and Communication for Large Power Systems", *International Journal of Critical Infrastructures*, vol. 4(1/2), pp. 3–16, Inderscience, 2008

Magazine Publications

1. Philippos Pouyioutas, Harald Gjermundrod, and Ioanna Dionysiou, "ReProTool Version 2.0 Re-engineering Academic Curriculum Using Learning Outcomes, ECTS and Bologna Process Concepts", *Pliroforiki*, Issue 23, pp. 21–29, Cyprus Computer Society, ISSN 1450-152X, 2012
2. Despo Ktoridou, Nikleia Eteokleous, and Ioanna Dionysiou, "Cloud Computing: Providing Tools to Enable Next-generation Case-Based Learning in Undergraduate MIS Courses", *IEEE Multidisciplinary Engineering Education Magazine*, Vol. 7, Issue 2 (2012), pp. 20 – 27, IEEE, 2012
3. Ioanna Dionysiou, "Cyprus Voyage to ISO 27001 Certification: Are we there yet?", *Pliroforiki*, Issue 21, pp. 15–25, Cyprus Computer Society, ISSN 1450-152X, 2011

Refereed Conference & Workshop Publications

1. Harald Gjermundrød, Konstantinos Chalkias, and Ioanna Dionysiou, "Going Beyond the Coinbase Transaction Fee: Alternative Reward Schemes for Miners in Blockchain Systems", *20th PanHellenic Conference on Informatics (PCI 2016)*, pp. 35:1–35:4, Patras, Greece, November 10–12, 2016

2. Athanasios Plessas and Ioanna Dionysiou, "An Investigation on the Application Developer Attitude Towards Greek Open Government Data", 20th PanHellenic Conference on Informatics (PCI 2016), pp. 44:1–44:4, Patras, Greece, November 10–12, 2016
3. Harald Gjermundrød, Ioanna Dionysiou, Marianne Baumberger, and Marc Pattinson, "An Assessment of the ICT Security Skills In the Industrial Sector as Provided Through Education and Training", Tenth Mediterranean Conference on Information Systems (MCIS 2016), pp. 1–12, Paphos, Cyprus, September 2016
4. Harald Gjermundrød, Ioanna Dionysiou, Kyriakos Costa, "privacyTracker: A Privacy-by-Design GDPR-Compliant Framework with Verifiable Data Traceability Controls", TELERISE: 2nd International Workshop on TEchnical and LEgal aspects of data pRivacy and SEcurity, Lugano, Switzerland, June 9, 2016, Lecture Notes in Computer Science, volume 9881, pp. 3–15, Springer Verlag.
5. Harald Gjermundrød and Ioanna Dionysiou, " CloudHoneyCY - An Integrated HoneyPot Framework for Cloud Infrastructures ", First International Workshop on Information Security, Assurance and Reliability in the Cloud (WISARC 2015), pp. 630 – 635, Limassol, Cyprus, December 7–10, 2015
6. Andreas Christoforou, Harald Gjermundrød and Ioanna Dionysiou, "HoneyCY: A Configurable Unified Management Framework for Open-Source HoneyPot Services", 19th Panhellenic Conference on Informatics 2015 (PCI2015), pp. 161–164, Athens, Greece, October 1–3, 2015
7. George Violaris and Ioanna Dionysiou, "Out-of-Band Authentication Model with Hashcash Brute-Force Prevention", The 6th IEEE International Symposium on Cyberspace Safety and Security (CSS-2014), pp. 806–813, Paris, France, August 20–22, 2014.
8. Harald Gjermundrod and Ioanna Dionysiou, "Recirculating Lost Coins in Cryptocurrency Systems", The 1st Workshop on Digital Currencies (DC 2014), Larnaca, Cyprus, May 22, 2014, Lecture Notes in Business Information Processing series, volume 183, pp. 229–240, Springer Verlag.
9. Philippos Pouyioutas, Harald Gjermundrod, Andreas Kyriacos, and Ioanna Dionysiou, "A mobile application for the student module of Reprotool ", 8th International Technology, Education and Development Conference, pp. 3509–3519, Valencia, Spain. 10–12 March, 2014.
10. Philippos Pouyioutas, Ioanna Dionysiou, Harald Gjermundrod, "The Pilot Use and Evaluation of ReProTool version 3.0 ", "Proceedings of EDULEARN13 Conference, pp. 4450 – 4460, Barcelona, Spain, 1–3 July 2013
11. Ioanna Dionysiou, "Security is in the Eye of the Beholder: Security Perceptions and Challenges in Social Networks ", The Seventh International Conference on Internet and Web Applications and Services (ICIW 2012), pp. 143 – 149, Stuttgart, Germany, May 27 – June 1, 2012
12. Ioanna Dionysiou and Harald Gjermundrod, " sGUTS: Simplified Grid User Trust Service for Site Selection", The Seventh International Conference on Internet Monitoring and Protection (ICIMP 2012), pp. 40 – 46, Stuttgart, Germany, May 27 – June 1, 2012

13. Philippos Pouyioutas, Harald Gjermundrod, and Ioanna Dionysiou, " ReProTool Version 3.0 – The Faculty Module for Designing and Enhancing University Programmes to Comply with the ECTS Label", 2013 IEEE Global Engineering Education Conference (EDUCON), pp. 16–22, Technische Universitt Berlin, Berlin, Germany, March 13–15, 2013
14. Philippos Pouyioutas, Harald Gjermundrod, and Ioanna Dionysiou, " E-learning - The Bologna Process, the European Credit Transfer System (ECTS), Learning Outcomes and ReProTool", The 11th International Conference on Web-based Learning (ICWL 2012), E. Popescu et al. (Eds.): ICWL 2012, LNCS 7558, pp. 334– 342, 2012, Sinaia, Romania, September 2 – 4, 2012, Springer-Verlag, Heidelberg
15. Philippos Pouyioutas, Harald Gjermundrod, Ioanna Dionysiou, Vasilis Rigas, and Euclid Keramopoulos, "The Student Module of ReProTool - Allowing Student Input in ECTS Re-engineering of University Programmes", Proceedings of the IASTED International Conference Computers and Advanced Technology in Education (CATE 2012), pp. 242 – 247, Napoli, Italy, June 25 – 27, 2012
16. Philippos Pouyioutas, Harald Gjermundrod, and Ioanna Dionysiou, "ReProTool, A Software Tool for the ECTS and Bologna Process Re-engineering of University Programmes ", e-Society 2012, pp. 19 – 26, Berlin, Germany, March 10–12, 2012
17. Ioanna Dionysiou, Philippos Pouyioutas, Harald Gjermundrod, Chrystalla Miltiadou, and Theodora Ioannou, "A Software Tool for Evaluating the Sustainability Performance of Housing Developments ", 2011 World Congress on Sustainable Technologies (WCST-2011), pp 26–31, London, UK, November 7–9, 2011
18. Philippos Pouyioutas, Harald Gjermundrod, Ioanna Dionysiou, and Michalis Michael, "MAP QFTOOL, A Software Tool for National Qualifications Frameworks" , eChallenges 2011, pp. 1 –9, Florence, Italy, October 26–28, 2011
19. Ioanna Dionysiou, Skevi Magirou, and Angelika Kokkinaki, "Security Practices in Cyprus", The 6th Mediterranean Conference on Information Systems (MCIS2011), pp. 1–7, Limassol, Cyprus, September 3–5, 2011
20. Philippos Pouyioutas, Harald Gjermundrod, Ioanna Dionysiou, and Michalis Michael, "MAP QFTOOL: A Software Tool for National Qualifications Frameworks" , International Conference on Information Society (i-Society 2011), pp. 198–203, London, UK, June 27–29, 2011
21. Ioanna Dionysiou and Despo Ktoridou, "Inductive Methods: Developing Teaching/Learning Strategies for a Computer Security Course", International Conference on Information Communication Technologies in Education (ICICTE 2011), pp. 140–149, Rhodes, Greece, July 7–9, 2011
22. Philippos Pouyioutas, Harald Gjermundrod, and Ioanna Dionysiou, "The Development of MAPQFTOOL: A Software Tool for National Qualifications Frameworks" , 3rd International Conference of Computer Supported Education, Volume II, pp. 273–279, Noordwijkerhout, Netherlands, May 6–9, 2011
23. Despo Ktoridou and Ioanna Dionysiou, "Case-Based Learning: An Instructional Model to Incorporate Information Security Topics in Multidisciplinary Courses at the University of Nicosia", IEEE Global Engineering Education Conference (EDUCON 2011), pp. 466–469, Amman, Jordan, April 4–6, 2011

24. Daniel Germanus, Ioanna Dionysiou, Harald Gjermundrod, Abdelmajid Khelil, Neeraj Suri, David E. Bakken, and Carl Hauser, "Leveraging the Next-Generation Power Grid: Data Sharing and Associated Partnerships", IEEE PES Conference on Innovative Smart Grid Technologies Europe, pp. 1–8, Gothenburg, Sweden, October 11–13, 2010, E-ISBN: 978-1-4244-8509-3
25. Ioanna Dionysiou, Harald Gjermundrod, and Dave Bakken, "GUTS: A Framework for Adaptive and Configurable Grid User Trust Service", 6th International Workshop on Security and Trust Management (STM 2010), pp. 84–99, Athens, Greece, September 23–24, 2010, LNCS 6710, Springer-Verlag, Heidelberg
26. Wendy Maiden, Ioanna Dionysiou, Deborah Frincke, Glenn Fink, and David Bakken, "DualTrust: A Distributed Trust Model for Swarm-Based Autonomic Computing Systems", The third International Workshop on Autonomous and Spontaneous Security (SETOP 2010), pp. 188–202, Athens, Greece, September 23, 2010, LNCS 6514, Springer-Verlag, Heidelberg
27. Ioanna Dionysiou, Angelika Kokkinaki, and Skevi Magirou, "Preliminary Survey Results on IT Security Practices in Cyprus Private and Public Sectors", The 5th Mediterranean Conference on Information Systems (MCIS2010), pp. 1–7, Tel-Aviv-Yafo, Israel, September 12–14, 2010, ISBN 978-965-555-474-8.
28. Philippos Pouyioutas, Harald Gjermundrod, and Ioanna Dionysiou, "The Development of ReProTool, a Software Tool for Developing Programmes Using Learning Outcomes", IADIS International Conference e-Learning 2010, Volume II, pp. 96–100, Freiburg, Germany, July 26–29, 2010
29. Ioanna Dionysiou and Yuko Murayama, "Trust Is In the Eye of the Beholder: Trust Perceptions in Social Networking Sites", The Joint International Workshop on Trust in Location and Communications in Decentralized Computing (TruLoco 2010), pp 1–8, Morioka City, Iwate Prefecture 020-0045, Japan, June 15, 2010
30. Philippos Pouyioutas, Harald Gjermundrod, and Ioanna Dionysiou, "The Development of TunTool, a Software Tool for the Tuning Methodology", 2nd International Conference of Computer Supported Education, Volume II, pp. 401–406, Valencia, Spain, April 7–10, 2010
31. Ioanna Dionysiou, Harald Gjermundrod, and Dave Bakken, "An Initial Approach on Adaptive Trust for Grid Environments", Proceedings of the First Workshop on Computational Trust for Self-Adaptive Systems (Selftrust), part of Adaptive 2009, pp. 719–722, Athens, Greece, November 15–20, 2009 (**Best Paper Award**)
32. Ioanna Dionysiou, Dave Bakken, Carl Hauser, and Deborah Frincke, "Formalizing End-to-End Context-Aware Trust Relationships in Collaborative Activities", International Conference on Security and Cryptography (SECRYPT 2008), pp. 546 – 553, Porto, Portugal, July 26–29, 2008
33. Ioanna Dionysiou, Deborah Frincke, Carl Hauser, and Dave Bakken, "An Approach to Trust Management Challenges for Critical Infrastructures", Proceedings of the 2nd International Workshop on Critical Information Infrastructures Security (CRITIS07), Lecture Notes in Computer Science Series volume 5141, pp. 173–184, Malaga, Spain, October 2–5, 2007, Springer Berlin

34. Carl H. Hauser, David E. Bakken, Ioanna Dionysiou, K. Harald Gjermundrod, Venkata S. Irava and Anjan Bose, "Security, trust, and QoS in next-generation control and communication for large power systems", In Proceedings of the International Workshop on Complex Network and Infrastructure Protection (CNIP06), Rome, Italy, March 28-29, 2006
35. Ovidiu V. Drugan, Ioanna Dionysiou, David E. Bakken, Thomas P. Plagemann, Carl Hauser, and Deborah Frincke, "On the Importance of Composability of Ad Hoc Mobile Middleware and Trust Management", 2nd International Service Availability Symposium (ISAS 2005), Published in Revised Selected Papers in Lecture Notes in Computer Science Series, vol. 3694, pp. 149–163, Berlin, Germany, April 25-26, 2005, Springer Berlin
36. Harald Gjermundrod, Ioanna Dionysiou, David E. Bakken, and Carl Hauser, "Fault Tolerance in Status Dissemination Middleware", Supplement of the International Conference on Systems and Networks (DSN-2003), IEEE/IFIP, pp. B56–B57, San Francisco, CA, USA, June 22-25, 2003
37. David E. Bakken, Anjan Bose, Carl Hauser, Ioanna Dionysiou, Harald Gjermundrod, Lin Xu, and Sudipto Bhowmik, "More Extensible and Resilient Real-Time Information Dissemination for the Electric Power", In Proceedings of International Conference on Power Systems and Communication Systems Infrastructures for the Future (CRIS2002), International Institute for Critical Infrastructures, Beijing, China, September 23-27, 2002
38. Ioanna Dionysiou, Harald Gjermundrod, and David E. Bakken, "Fault Tolerance Issues in Publish-Subscribe Dissemination Middleware for the Electric Power Grid", Supplement of the International Conference on Dependable Systems and Networks (DSN-2002), IEEE/IFIP, pp. B62–B63, Washington, DC, USA, June 23-26, 2002
39. David E Bakken, Anjan Bose, Curtis Dyreson, Sudipto Bhowmik, Ioanna Dionysiou, Harald Gjermundrod, and Lin Xu, "Impediments to Survivability of the Electric Power Grid and Some Collaborative EE-CS Research to Solve Them", In Proceedings of the IEEE 4th Information Survivability Workshop, pp. C2–C5, Vancouver, BC, Canada, March 18-20, 2002

Non-refereed Papers

1. Ioanna Dionysiou, "The Dark Waters of the Deep Web", Crime, State, and Criminal Justice (title translated), pp. 83–88, University of Nicosia Press, 2016
2. Philippos Pouyioutas, Harald Gjermundrod, and Ioanna Dionysiou, "ReProTool Version 1.0 Managing Learning Outcomes - A Useful Tool for Erasmus Co-ordinators, Employers and ENIC/NARIC Networks ", Erasmus Coordinators Conference 2010 and Go-Exchange Education Fair, ERACON 2010, Vienna, Austria, July 1–5, 2010
3. Philippos Pouyioutas, Harald Gjermundrod, and Ioanna Dionysiou, "ReProTool-A software Tool for Managing Learning Outcomes ", European Career Guidance Counseling Conference 2010, CAREER-EU 2010, Limassol, Cyprus, May 23 – 27, 2010
4. Ioanna Dionysiou and Harald Gjermundrod, "Must-Share: Filling the gap between Need-to-know and Need-to-share", Talaris Grass Roots Round Table On CyberSecurity (RTCS'09), Seattle, WA, August 27 – 28, 2009.

Technical Reports

1. Ioanna Dionysiou, Deborah Frincke, David E. Bakken, and Carl Hauser, "Actor-Oriented Trust", Technical Report EECS-GS-006, Washington State University, January 2005
2. K. Harald Gjermundrod, Ioanna Dionysiou, Carl Hauser, David Bakken and Anjan Bose, "Flexible and Robust Status Dissemination Middleware for the Electric Power Grid", Technical Report EECS-GS-003, Washington State University, September 2003

Poster Sessions

1. Marina Gavrilaki, Angelika Kokkinaki and Ioanna Dionysiou, "Design and Development of a Mashup Application to Support Organizations' Compliance to ISO27002", 7th mediterranean conference on information systems (MCIS 2012), Guimaraes, Portugal, September 8-10, 2012
2. Ioanna Dionysiou and Dave Bakken, "Dynamic and Composable Trust", Trustworthy Cyber Infrastructure for the Power Grid (TCIP) External Advisory Committee Meeting, UIUC, IL, USA, December 2006
3. Ioanna Dionysiou, Harald Gjermundrod, and Dave Bakken "GridStat Framework", Power Systems Engineering Research Center (PSERC) meeting, Washington State University, Pullman, WA, USA, May 29, 2003

Presentations & Invited Talks

1. "Active Defense - Catching Cyber Criminals in the Act", Invited Talk, Cybercrime in Cyprus and Beyond, Limassol, Cyprus, June 27, 2016
2. "A Methodology to Avert Cyber Attacks: Protecting National Infrastructures", Invited Talk, Cyprus Ministry of Defense CSDP Orientation Course, Larnaca, Cyprus, April 28, 2015
3. "Attracting and Retaining Women in ICT", Opening Address, organized by CCS, Nicosia, Cyprus, March 20, 2015
4. "The Dark Waters of the Deep Web", Talk, 1st Cyprus Conference on Criminal Law and Criminology, University of Nicosia, Cyprus, 6-7 March, 2015
5. "Common Myths of eGovernment", Talk, Preparing the High-Rank Public Sector Employees, Larissa, Greece, February 7, 2015 [in Greek]
6. "Cloud for the Public Sector: Could governments move into the cloud?", Invited Talk, Cyprus National Security Authority Conference – Information Security Management –, Nicosia, Cyprus, November 27, 2012 (organized during the Cyprus Presidency of the Council of the EU)
7. "A Methodology to Avert Cyber Attacks: Protecting National Infrastructures", Invited Talk, Cyprus National Security Authority Conference – Information Security Management –, Nicosia, Cyprus, November 26, 2012 (organized during the Cyprus Presidency of the Council of the EU)
8. "Security Awareness", Opening Address for INFOSEC 2011, Nicosia, Cyprus, November 2, 2011

9. "An Initial Approach to EGEE Trust", Presentation, Workshop on Trust Technologies (COST Action ICO801), Ayia Napa, Cyprus, December 16, 2009
10. "Depicting Social Trust in a Digital World", Invited talk, The 2008 International Conference on High performance Computing and Simulation (HPCS 2008), Session on Security and High Performance Computing Systems, Nicosia, Cyprus, June 5, 2008
11. "GridStat Security Issues", Invited Talk, Eastern Washington University, Spokane, WA, July 7, 2003
12. "GridStat Challenges", Invited Talk, Cyber Security Technology Special Interest Group Forum, Spokane, WA, April 2003

Conference Presentations

1. "Out-of-Band Authentication Model with Hashcash Brute-Force Prevention", The 6th IEEE International Symposium on Cyberspace Safety and Security (CSS-2014), Paris, France, August 20–22, 2014.
2. "Security is in the Eye of the Beholder: Security Perceptions and Challenges in Social Networks", The Seventh International Conference on Internet and Web Applications and Services (ICIW 2012), Stuttgart, Germany, May 27 – June 1, 2012
3. "A Software Tool for Evaluating the Sustainability Performance of Housing Developments", WCST-2011, London, UK, November 7–9, 2011
4. "GUTS: A Framework for Adaptive and Configureable Grid User Trust Service", 6th International Workshop on Security and Trust Management (STM 2010), Athens, Greece, September 23–24, 2010
5. "An Initial Approach on Adaptive Trust for Grid Environments", First Workshop on Computational Trust for Self-Adaptive Systems (Selftrust), part of Adaptive 2009, Athens, Greece, November 15-20, 2009 (**Best Paper Award**)
6. "Formalizing End-to-End Context-Aware Trust Relationships in Collaborative Activities", International Conference on Security and Cryptography (SECRYPT 2008), Porto, Portugal, July 26-29, 2008
7. "An Approach to Trust Management Challenges for Critical Infrastructures", 2nd International Workshop on Critical Information Infrastructures Security (CRITIS07), Malaga, Spain, October 25, 2007
8. "Fault Tolerance Issues in Publish-Subscribe Dissemination Middleware for the Electric Power Grid", International Conference on Dependable Systems and Networks (DSN-2002), IEEE/IFIP, Washington, DC, USA, June 23-26, 2002

Roundtable Discussions

1. "INSPIRE-Gridstat International Collaboration between EU and NSF", Darmstadt, Germany, February 3-4, 2010
2. "US Department of Energy Research Agenda", Talaris Grass Roots Round Table on Cyber-Security, Seattle, WA, Aug 26-28, 2009

3. "Trust and US Department of Energy Research Agenda", Community of Interest on Trust, Pacific Northwest National Laboratory, Richland, WA, August 13, 2009
4. "System Survivability", Discussion group at in IEEE 4th Information Survivability Workshop, Vancouver, BC, Canada, March 18-20, 2002

Panel Participation

1. "Cyber Security Standards", Panel Moderator, Cyber Security Standards: Their use in Government and Critical Information Infrastructures, University of Nicosia, September 11, 2014
2. "Digital Innovation and Young Entrepreneurship: Critical Success Factors and Best Practices", Panel Moderator, innovation 2012, University of Nicosia, April 2012

SCHOLARLY ACTIVITIES

Advisory Boards

1. Cyprus ECSC (European Cyber Security Challenge) Advisory Board, July 2017 – present
2. Cyprus Cyber Crime Center of Excellence for Training, Research and Education, Advisory Board Member, January 2015 – present

National Committees

1. Working SubGroup on National Policy/Strategy on Internet Safety for students, educators, and parents, Cybersecurity Strategy of the Republic of Cyprus Action 14 - Security Awareness Program, April 2016 – present
2. Ad-hoc CyberSecurity Glossary Development Group, in collaboration with University of Nicosia, Cyprus National Security Authority, Office of the Commissioner of Electronic Telecommunications and Postal Regulations, and Cyprus Standardization Organization, May 2013 – September 2014

Conference and Workshop Organization

- Organizing Committee
 1. The 10th Mediterranean Conference on Information Systems (MCIS2016), Paphos, Cyprus, September 3 – 6, 2016 (Submission Co-Chair, General Track Session Chair)
 2. 9th EAI International Conference on Mobile Multimedia Communications (MobiMedia 2016), Xi'an, People's Republic of China, June 18–20, 2016 (publicity co-chair)
 3. InfoSec 2015, Nicosia, Cyprus (organizing committee, session chair)
 4. The 14th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (IEEE TrustCom-15), Helsinki, Finland, 20–22 August 2015 (publicity co-chair)
 5. Cyber Security Standards: Their use in Government and Critical Information Infrastructures, Nicosia, Cyprus, September 11, 2014 (Organizing Committee)

6. The 14th IEEE International Conference on Computer and Information Technology (CIT 2014), Xioan, Shaanxi, China, September 11 – 13, 2014 (publicity co-chair)
 7. Data and Applications Security track of The 6th International Symposium on Cyberspace Safety and Security, Paris, France, August 20–22, 2014 (Vice Program chair)
 8. The 8th International Wireless Communications and Mobile Computing Conference, Grand Resort Hotel, Limassol, Cyprus, August 27–31, 2012 (Local Organizing Committee)
 9. InfoSec 2011, Nicosia, Cyprus, November 3, 2011 (session chair)
 10. The 6th Mediterranean Conference on Information Systems (MCIS2011), Limassol, Cyprus, September 3 – 5, 2011 (Workshops Co-Chair)
 11. The 2011 International Workshop on Survivable Large-Scale Information Systems (SLSIS 2011), Aug 31– Sep 2, 2011, Pafos, Cyprus, in conjunction with the IEEE ScalCom-2011 (Co-chair)
 12. The 2010 International Conference on High Performance Computing & Simulation (HPCS 2010), Caen, France, June 28 - July 2, 2010 (Registration Co-chair)
 13. First Workshop on Computational Trust for Self-Adaptive Systems, Session 1, Athens, Greece, November 19, 2009 (Session chair)
 14. Cyprus Grid Day: Research and Industrial Perspectives, Nicosia, Cyprus, 21 January, 2008 (Local Organizing Committee)
- Program Committee
 1. 11th International Symposium on Intelligent Distributed Computing (IDC 2017), Belgrade, Spain, October 11 – 13, 2017
 2. The 14th International Conference on e-Business (ICE-B 2017), Madrid, Spain, July 26 – 28, 2017
 3. The 2017 International Conference on Security and Management (SAM'17), Las Vegas, USA, July 17 – 20, 2017
 4. IEEE Global Engineering Education Conference (EDUCON 2017), Athens, Greece, 5–28 April, 2017
 5. The Eighth International Conference on Cloud Computing, GRIDs, and Virtualization (Cloud Computing 2017), Athens, Greece, February 19 – February 23, 2017
 6. The 9th International Conference on Adaptive and Self-adaptive Systems and Applications (ADAPTIVE 2017), Athens, Greece, February 19 – February 23, 2017
 7. The 8th International Conference on Evolving Internet (INTERNET 2016), Barcelona, Spain, November 13 – 17, 2016
 8. 4th IEEE International Conference on Cloud Computing and Intelligence Systems, Beijing, China, August 17 – 19, 2016
 9. The 13th International Conference on e-Business (ICE-B 2016), Lisbon, Portugal, July 26 – 28, 2016
 10. The 2016 International Conference on Security and Management (SAM'16), Las Vegas, USA, July 25 – 28, 2016
 11. The 10th International Conference on Emerging Security Information, Systems and Technologies (SECURWARE 2016), Nice, France, July 24 - -28, 2016

12. 2nd International Workshop on TEchnical and LEgal aspects of data pRivacy and SEcurity (TELERISE 2016), USI Lugano, Switzerland, June 9, 2016
13. The 11th International Conference on Internet and Web Applications and Services (ICIW 2016), Valencia, Spain , May 22 – 24, 2016
14. 18th Mediterranean Electrotechnical Conference (IEEE MELECON 2016), Networking and Security Thematic Track, Limassol, Cyprus, April 18 – 20, 2016
15. The First International Workshop on Interoperability and Integration in Service-Oriented Systems (IISOS 2016), Oxford, UK, March 29 – April 2, 2016
16. The 8th International Conference on Adaptive and Self-adaptive Systems and Applications (ADAPTIVE 2016), Rome, Italy, March 20 – March 24, 2016
17. The 7th International Conference on Evolving Internet (INTERNET 2015), St. Julians, Malta, October 11– 16, 2015
18. The Ninth International Conference on Emerging Security Information, Systems and Technologies (SECURWARE 2015), Venice, Italy, August 23 - -28, 2015
19. The 12th International Conference on e-Business (ICE-B 2015), Colmar, Alsace, France, July 20 – 22, 2015
20. The 10th International Conference on Internet and Web Applications and Services (ICIW 2015), Brussels, Belgium , June 21 – 26, 2015
21. 1st International Workshop on TEchnical and LEgal aspects of data pRivacy and SEcurity (TELERISE 2015), Florence, Italy, May 18, 2015
22. The 7th International Conference on Adaptive and Self-adaptive Systems and Applications (ADAPTIVE 2015), Nice, France, March 22 – March 27, 2015
23. 8th International Information Systems 2015 (IS 2015), Madeira, Portugal, March 14 – 16, 2015
24. The 11th International Conference on e-Business (ICE-B 2014), Vienna, Austria, September 2 – 4, 2014
25. Security and High Performance Computing System (SHPCS-14), Bologna, Italy, July 21 – 25, 2014
26. The 9th International Conference on Internet and Web Applications and Services (ICIW 2014), Paris, France , July 20 – 24, 2014
27. The 6th International Conference on Evolving Internet (INTERNET 2014), Seville, Spain, June 22– 26, 2014
28. The 6th International Conference on Adaptive and Self-adaptive Systems and Applications (ADAPTIVE 2014), Venice, Italy, May 25 – May 29, 2014
29. 7th International Conference on Information Systems 2014, Madrid, Spain, 28 February – 2 March, 2014
30. 3rd International Workshop on Performance Assessment and Auditing in Service Computing (PAASC 2013), Berlin, Germany, December 2–5, 2013
31. The 10th International Conference on e-Business (ICE-B 2013), Reykjavik, Iceland, July 29 – 31, 2013
32. The 5th International Conference on Evolving Internet (INTERNET 2013), Nice, France, July 21– 26, 2013

33. The 3rd IEEE International Symposium on Trust and Identity in Mobile Internet, Computing and Communications (TrustID 2013), Melbourne, Australia, July 16–18, 2013
34. Security and High Performance Computing System (SHPCS-13), Helsinki, Finland, July 1 – 5, 2013
35. The Eighth International Conference on Internet and Web Applications and Services (ICIW 2013), Rome, Italy , June 23 – 28, 2013
36. The fifth International Conference on Adaptive and Self-adaptive Systems and Applications (ADAPTIVE 2013), Valencia, Spain, May 27 – June 1, 2013
37. IADIS International Conference Information Systems 2013, Lisbon, Portugal, March 13 –15, 2013
38. Performance Assessment and Auditing in Service Computing Workshop 2012, Shanghai, China, November 12 – 16, 2012
39. 1st International Conference on Agreement Technologies, Dubrovnik, Croatia, October 15 – 16, 2012
40. Annual Privacy Forum 2012, Limassol, Cyprus, October 10–11, 2012
41. IEEE iThings 2012, Reliability, Security, Privacy and Trust Track, Besancon, France, September 12–12, 2012
42. International Congress on Enterprise Technology and Industrial Manufacturing, Jakarta, Indonesia, December 17–18, 2012
43. International Conference on Business, Education, and Creative Technology, Bali, Indonesia, August 17–18, 2012
44. The fourth International Conference on Adaptive and Self-adaptive Systems and Applications (ADAPTIVE 2012), Nice, France, July 22–27, 2012
45. 7th Workshop on Security and High Performance Computing Systems (SHPCS 2012), 2012, Madrid, Spain, July 2–6, 2012
46. The 2nd IEEE International Symposium on Trust and Identity in Mobile Internet, Computing and Communications (TrustID 2012), Liverpool, UK, June 22–27, 2012
47. The 1st IEEE International Workshop on Trust and Identity in Mobile Internet, Computing and Communications (TrustID 2011), Changsha, China, November 16 – 18, 2011
48. The third International Conference on Adaptive and Self-adaptive Systems and Applications (ADAPTIVE 2011), Rome, Italy, September 25–30, 2011
49. 6th Workshop on Security and High Performance Computing Systems (SHPCS 2011), 2011, Istanbul, Turkey
50. The 5th Mediterranean Conference on Information Systems (MCIS2010), Tel-Aviv-Yafo, Israel, September 12–14, 2010
51. The Second International Conference on Adaptive and Self-adaptive Systems and Applications (ADAPTIVE 2010), Lisbon, Portugal, November 21–26, 2010,
52. Workshop on Security and High Performance Computing Systems, SHPC-10, 2010, France
53. Pervasive Social Computing Track of the 7th International Conference on Ubiquitous Intelligence and Computing 2010, Xian, China, October 2010
54. Workshop on Security and High Performance Computing Systems, as part of HPCS09 and in conjunction with IWCMC09, Leipzig, Germany, June 21-24, 2009

Editorial Board

1. International Journal on Advances in Intelligent Systems, IARIA, February 2012 – present

Reviewer for Journal Submissions

1. IET Information Security, 2017
2. Future Generation Computer Systems, Elsevier 2017
3. Future Generation Computer Systems, Elsevier 2016
4. International Journal of Information Quality (IJIQ), Inderscience 2016
5. IEEE Transactions on Smart Grid, 2015
6. Future Generation Computer Systems, Elsevier 2015
7. Computers and Security, Elsevier, 2014
8. Future Generation Computer Systems, Elsevier 2014
9. Information Security Journal: A Global Perspective, Taylor and Francis 2013
10. Future Generation Computer Systems, Elsevier 2013
11. IET Information Security, 2012
12. Future Generation Computer Systems, Elsevier 2012
13. Information and Management, Elsevier, 2012
14. IEEE Smart Grid Communications Vision, IEEE 2012
15. International Journal of Information Quality, Inderscience 2012
16. Future Generation Computer Systems - The International Journal of Grid Computing and eScience, Elsevier 2011
17. International Journal of System of Systems Engineering , Inderscience, 2011
18. Special Issue on Recent Developments in High Performance Computing and Security, Elsevier, 2011
19. IEEE Internet Computing, 2011
20. International Journal of System of Systems Engineering, InderScience, 2009
21. Journal of Systems and Software, Elsevier, 2009
22. IEEE Transactions on Dependable and Secure Computing, 2007
23. ACM Journal of Computer Security, 2005
24. IEEE Transactions on Parallel and Distributed Computing special issue on Middleware, 2003.
25. ACM Journal of Computer Security, special edition on the ACM CCS Workshop on Intrusion Detection System, 2001

Reviewer for Conference and Workshop Submissions

1. The 15th IEEE International Conference on Computer and Information Technology (CIT-2015)
2. The 13th IEEE International Conference on Dependable, Autonomic and Secure Computing (DASC-2015)
3. The 12th IEEE International Conference on Trust, Security and Privacy in Computing and Communication (TrustCom-2013), 2013
4. The 11th IEEE International Symposium on Parallel and Distributed Processing with Applications (ISPA-2013), 2013
5. The 3rd IEEE International Conference on Smart Grid Communications, (SmartGridComm 2012), 2012
6. The 14th IEEE International Conference on High Performance Computing and Communications, (HPCC-2012), 2012
7. 11th IEEE International Conference on Trust, Security and Privacy in Computing and Communications, 2012
8. The 11th International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP), 2011
9. IEEE SmartGridComm, 2011
10. IEEE International Conference on Smart Grid Communications, 2010
11. 12th IEEE International Conference on High performance Computing and Communications, 2010
12. The Seventh International Symposium on Wireless Communication Systems, 2010
13. 10th IEEE International Conference on Computer and Information Technology, 2010
14. 10th IEEE International Conference on Scalable Computing and Communications, 2010
15. 10th IFIP international conference on Distributed Applications and Interoperable Systems (DAIS), 2010
16. 30th IEEE International Conference on Distributed Computing Systems (ICDCS), 2010
17. 1st International Conference on Scalable Computing and Communications, 2009
18. 9th IFIP international conference on Distributed Applications and Interoperable Systems, DAIS 2009
19. Performance and Dependability Symposium (PDS), DSN 2009
20. Dependable Computing and Communications Symposium (DCCS) Symposium, DSN 2009
21. ACM/IFIP/USENIX 9th International Middleware Conference, 2008

22. 8th International Conference on Distributed Applications and Interoperable Systems (DAIS), 2008
23. IEEE 22nd International Conference on Advanced Information Networking and Applications, 2007
24. Africon, 2007
25. 3rd International Service Availability Symposium, 2006
26. IEEE International Symposium on High Assurance Systems Engineering (HASE), 2005
27. 37th Hawaii International Conference on Systems Sciences, Minitrack on Security and Survivability of Networked Systems, 2004.
28. Pacific Rim Dependable Computing, 2004
29. International Symposium on Distributed Objects and Applications, 2002
30. International Symposium on Distributed Computing, 2001

Research Seminar Organizer

1. "Next Generation Security Seminar", May 10, 2012, University of Nicosia (co-organized with PhoenixPro)
2. "Trustworthy Indexing for Compliance Documents", Dr Marianne Winslett (UIUC), March 5, 2007, Intercollege
3. "GridStat: Next Generation Communications Middleware for the Electric Power Grid", Dr Dave Bakken (WSU), February 26, 2007, Intercollege

Event Organizer

1. "Deploy Your Security Shield", Poster Exhibition and Demonstration Event, part of the Science Week organized by School of Sciences, in the framework of the 1st Cyprus Science Festival, April 4–8, 2011, University of Nicosia
2. EGEE Grid Training Session, April 23–24 , 2007, Intercollege (co-organized with University of Cyprus)

Collaborations

- Active Defenses, in collaboration with Dr Harald Gjermundrod, Associate Professor, University of Nicosia (Cyprus)
 - Trust for Critical Infrastructures, in collaboration with Dr Dave Bakken, Associate Professor, WSU (USA)
 - ReProTool, in collaboration with Dr Philippos Pouyioutas, Professor, University of Nicosia (Cyprus), and Dr Harald Gjermundrod, Associate Professor, University of Nicosia (Cyprus)
-

ACADEMIC EXPERIENCE

Administrative Position at University of Nicosia

- School Council Representative, Department of Computer Science, University of Nicosia, April 1, 2012 – March 31, 2016
- Associate Head, Department of Computer Science, University of Nicosia, April 2, 2010 – April 1, 2012

Administrative Position at University of Nicosia/Intercollege - Middlesex University

- Link Tutor for graduate programs: MSc Computer and Network Security and MSc for Computer Network Management, March, 2010 – August 2015

Academic Appointments

- Academic Board Member, Computer and Network Security MSc Program, Open University Cyprus, February 2016 – present

Administrative Service at University of Nicosia and WSU

- Committee Member of the Department Hiring Committee for Part-time Faculty, Fall 2014 – present
- Committee Member of the Department Postgraduate Programmes Committee (audit member), Spring 2013 - present
- Committee Member for Developing MSc in Computer Science, Spring 2011
- Computer Science Student Awards sponsor recruiting, University of Nicosia, Spring 2009
- Information Technology in Education Committee, member, University of Nicosia, February 2007 – October 2007
- Graduate and Professional Student Association, EECS Senator, WSU, August 2001– August 2003

Participation in Ranking/Tenure Committees

- External Member of the Tenure Committee for Mr Nicholaos Psarras, Alexander Technology Educational Institute of Thessaloniki, Greece, 2014
- Evaluator for the Promotion to the rank of Associate Professor of Dr Euclid Keramopoulos, Alexander Technology Educational Institute of Thessaloniki, Greece, 2013

External Proposal Evaluator

- Technical Evaluator for *Plan to Fund Enterprise Innovation (2014)*, Cyprus Ministry of Energy, Commerce, Industry and Tourism, May 2016

Graduate-level Advisory

Master Thesis Supervisor at University in Nicosia (Middlesex University)

- Kleanthis Constantinou, "ISO 27001 Web-based App ", May 2015
- Chistodoulos Cosma, "Implementation and Security Analysis of a 2-factor authentication system", May 2015
- George Violaris, " Out-of-Band Authentication Model with Hashcash Brute-Force Prevention", May 2014

Master Thesis Committee Member at Washington State University

- Wendy Maiden, "A Trust Management Architecture for Swarm-based Autonomic Computing Systems", April 2010

Master Thesis (MBA) Advisor at University of Nicosia

- Theodosios Iacovou, "Implementation of ISO 27001 in Cyprus Enterprises", December 2011

Master Thesis (MBA) Committee Member at University of Nicosia

- Andreas Papachristoforou, Supervisor: Dr Karamanos, March 2014
- Marios Pasialis, Supervisor: Dr Konninaki, December 2013
- Marios Kyriakides, Supervisor: Dr Karamanos, February 2013
- Bambos Papacharalambous, Supervisor: Dr Konninaki, December 2011

Undergraduate-level Advisory

Undergraduate Final Year Project Advisor at University of Nicosia

1. Andreas Christoforou, "Implementation and Deployment of HoneyCY", Spring 2015
2. Christos Tziortzis, "Performance Analysis of Vulnerability Assessment Tools", Spring 2015
3. Alexandros Aifotiti, "Performance Analysis of Intrusion Detection Systems", expected Spring 2014
4. Anna Varnava, "Performance Analysis of Vulnerability Assessment Tools", expected Spring 2014
5. Marios Theodoulou, "A web-based application to assess the security practices of an enterprise according to ISO 27001", September 2013
6. Petros Andreou, " A web-based application for Online Computer Store", September 2012
7. Christodoulos Cosma "A web-based application for Online Computer Repair Store", April 2012
8. Chrystalla Miltiadous, "A Software Tool for Sustainable Housing Development Assessment", June 2011

9. Kalozois Kalozoi, "UNIC Secure Social Network", June 2011
10. Constantinos Demetriou , "Implementation of a HoneyPot", July 2011
11. Nicolas Papachrysanthou, "RFID Simulator for Computer Labs", June 2011
12. Marios Georgiades, "RFID Simulator for Libraries" , June 2011
13. Constantinos Choraitis, " Design and Implementation of a Social Networking Site", June 2011
14. Skevi Christou, "ICT Security Practices in Cyprus Private and Public Sector " , March 2011
15. Demetris Soteropoulos, "Security Courseware Package for UNIC students " , September 2011
16. Adei Adel, "Protection Mechanisms for Database Management Systems", February 2011
17. Vasso Neophytou, "Network Security Hands-on Experimentation " , September 2010
18. Kyriakos Christoforou, "Security and Privacy of Wireless Networks" , May 2009
19. Loucas Ioannou, "Security and Privacy of Wireless Networks" , May 2009
20. Andreas Demetriou, "Security and Privacy of Wireless Networks" , May 2009
21. Gregoris Gregoriou, "UNic Betting Store", December 2008
22. George Pavlou, "UNic Textbook Reservation System", May 2009
23. Elena Prastitou, "Trust Policy Language", June 2008
24. Costas Demetriou, "Implementation of a Recommendation Network", April 2008
25. Amin Gholoobi, "Setting, Configuring, and Using a Cluster Unit", December 2007
26. George Angelides, "Exploring the Client-Server Communication Paradigm", September 2007
27. Christodoulos Patsalides, "Networked Multiplayer Snakes and Ladders Game", July 2007

Teaching

- Spring 2017: COMP-421 Computer Security, COMP-527 Cyber Warfare, MPA-522 E-government and Statistical Applications, University of Nicosia
- Fall 2016: COMP-111 Programming Principles I, COMP-421 Compiler Design, COMP-514 Cryptography and Network Security, CRIM-522 CyberCrime, University of Nicosia
- Spring 2016: COMP-421 Computer Security, COMP-527 Cyber Warfare, MPA-522 E-government and Statistical Applications, University of Nicosia
- Fall 2015: COMP-111 Programming Principles I, COMP-421 Compiler Design, COMP-514 Cryptography and Network Security, COMP-527 Cyber Warfare, University of Nicosia
- Summer 2015: MPA-522 E-government and Statistical Applications, University of Nicosia
- Spring 2015: COMP-421 Computer Security, CRIM-522 CyberCrime, MPA-522 E-government and Statistical Applications, University of Nicosia

- Fall 2014: COMP-111 Programming Principles I, COMP-421 Compiler Design, COMP-514 Cryptography and Network Security, CRIM-522 CyberCrime, University of Nicosia and CCM-4902 Postgraduate Project in Computer Communications, Middlesex University, (Rank based on student evaluations: 4.53/5.0)
- Summer 2014: MPA-522 E-government and Statistical Applications
- Spring 2014: COMP-114 Software Development Lab II, COMP-421 Computer Security, COMP-514 Systems Security, MPA-522 E-government and Statistical Applications, University of Nicosia and CCM-4901 Project Research and Communication skills, Middlesex University, (Rank based on student evaluations: 4.59/5.0)
- Fall 2013: COMP-111 Programming Principles I, COMP-421 Compiler Design, University of Nicosia and CCM-4901 Project Research and Communication skills, CCM-4902 Postgraduate Project in Computer Communications, Middlesex University, (Rank based on student evaluations: 4.59/5.0)
- Summer 2013: MPA-522 E-government and Statistical Applications
- Spring 2013: COMP-114 Software Development Lab II, COMP-421 Computer Security, University of Nicosia and CCM-4332 Network Security, CCM-4901 Project Research and Communication skills, Middlesex University, (Rank based on student evaluations: 4.66/5.0)
- Fall 2012: COMP-111 Programming Principles I, COMP-421 Compiler Design, University of Nicosia and CCM-4332 Network Security, CCM-4901 Project Research and Communication skills, Middlesex University, (Rank based on student evaluations: 4.27/5.0)
- Spring 2012: COMP-114 Software Development Lab II, COMP-421 Computer Security, University of Nicosia (Rank based on student evaluations: 4.9/5.0)
- Fall 2011: COMP-111 Programming Principles I, COMP-421 Compiler Design, University of Nicosia
- Spring 2011: COMP-111 Programming Principles I, COMP-431 Network Security, University of Nicosia (Rank based on student evaluations: 4.7/5.0)
- Fall 2010: COMP-111 Programming Principles I, COMP-421 Compiler Design, University of Nicosia
- Spring 2010: COMP-152 Programming I, University of Nicosia (Rank based on student evaluations: 4.51/5.0)
- Fall 2009: COMP-152 Programming I, COMP-325 Network Security, COMP-375 Compiler Design, University of Nicosia
- Spring 2009: COMP-152 Programming I, University of Nicosia (Rank based on student evaluations: 4.66/5.0)
- Fall 2008: COMP-152 Programming I, COMP-325 Network Security, COMP-375 Compiler Design, University of Nicosia (Rank based on student evaluations: 4.75/5.0)
- Spring 2008: COMP-152 Programming I, COMP-354 Operating Systems, University of Nicosia (Rank based on student evaluations: 4.5/5.0)

- Fall 2007: COMP-152 Programming I, COMP-354 Operating Systems, COMP-375 Compiler Design, University of Nicosia (Rank based on student evaluations: 4.54/5.0)
- Spring 2007: COMP-152 Programming I, COMP-354 Operating Systems, COMP-375 Compiler Design, Intercollege (Rank based on student evaluations: 4.65/5.0)
- Fall 2006: COMP-152 Programming I, COMP-354 Operating Systems, COMP-375 Compiler Design, Intercollege (Rank based on student evaluations: 4.55/5.0)
- Spring 2003: CPTS-122 Data Structures, Washington State University

Course Development at University of Nicosia

- COMP-431 Computer Security (required)
- COMP-432 Network Security (elective)
- COMP-514 Cryptography and Network Security (required)
- COMP-527 Cyber Warfare (required for Cybersecurity concentration)
- COMP-529 Network Defense and Countermeasures (required for Cybersecurity concentration)
- COMP-530DL Cryptographic Systems Security (elective)
- CRIM-522 Cybercrime (elective)
- MPA-522 E-government and Statistical Applications (required)
- MIS-415 Principles of Information Security (required)

Course Leader at University of Nicosia

- COMP-411 Programming Languages (elective)
- COMP-421 Compiler Design (required)
- COMP-431 Computer Security (required)
- COMP-432 Network Security (elective)
- COMP-514 Cryptography and Network Security (required)
- COMP-527 Cyber Warfare (required for Cybersecurity concentration)
- COMP-529 Network Defense and Countermeasures (required for Cybersecurity concentration)
- COMP-530DL Cryptographic Systems Security (elective)
- CRIM-522 Cybercrime (elective)
- MPA-522 E-government and Statistical Applications (required)
- MIS-415 Principles of Information Security (required)

Approved Tutor for Middlesex University

- CCM-4320 Network Systems and Services
 - CCM-4332 Network Security
 - CCM-4350 Security Architecture and Engineering
 - CCM-4340 Network Management, Security, and Disaster Recovery
 - CCM-4901 Project Research and Communication Skills
 - CCM-4902 Postgraduate Project in Computer Communications
-

OTHER CURRICULAR ACTIVITIES

- Judge, Semifinals for Games category of Imagine Cup 2013, March 27, 2013
- Examiner, Research by High School Students 2010, University of Nicosia, AY 2010, 2011, 2012, 2016
- International Winter School in Grid Computing 2008 participant, sponsored by International Collaboration to Extend and Advance Grid Education (ICEAGE), February 8, 2008 – March 12, 2008
- Grid Node (part of the CyGrid infrastructure of EGEE II project) Supervisor, University of Nicosia, July 2007 – October 2007
- Orientation of new international students, Washington State University, August 16–19, 2003

PUBLICATION CITATION COUNT ¹

Table 1: Citation Count Summary

Citations	220 (including self-citations) 151 (excluding self-citations)
h-index	8
i10-index	6

1. Carl H. Hauser, David E. Bakken, Ioanna Dionysiou, K. Harald Gjermundrod, Venkata S. Irava, Joel Helkey, and Anjan Bose, "Security, Trust and QoS in Next-generation Control and Communication for Large Power Systems", International Journal of Critical Infrastructures, vol. 4(1/2), pp. 3–16, Inderscience, 2008 – cited by 71
2. K. Harald Gjermundrod, Ioanna Dionysiou, Carl Hauser, David Bakken and Anjan Bose, "Flexible and Robust Status Dissemination Middleware for the Electric Power Grid", Technical Report EECS-GS-003, Washington State University, September 2003 – cited by 14
3. Ioanna Dionysiou, "Dynamic and Composable Trust for Indirect Interactions", PhD Dissertation, Washington State University, August 2006 – cited by 9
4. Wendy Maiden, Ioanna Dionysiou, Deborah Frincke, Glenn Fink, and David Bakken, "DualTrust: A Distributed Trust Model for Swarm-Based Autonomic Computing Systems", The third International Workshop on Autonomous and Spontaneous Security (SETOP 2010), pp. 188–202, Athens, Greece, September 23, 2010, LNCS 6514, Springer-Verlag, Heidelberg – cited by 8
5. David E. Bakken, Anjan Bose, Carl Hauser, Ioanna Dionysiou, Harald Gjermundrod, Lin Xu, and Sudipto Bhowmik, "Towards More Extensible and Resilient Real-Time Information Dissemination for the Electric Power", In Proceedings of International Conference on Power Systems and Communication Systems Infrastructures for the Future (CRIS2002), International Institute for Critical Infrastructures, Beijing, China, September 23-27, 2002 – cited by 7
6. Ioanna Dionysiou, Harald Gjermundrod, and David E. Bakken, "Fault Tolerance Issues in Publish-Subscribe Dissemination Middleware for the Electric Power Grid", Supplement of the International Conference on Dependable Systems and Networks (DSN-2002), IEEE/IFIP, pp. B62–B63, Washington, DC, USA, June 23-26, 2002 – cited by 5
7. Daniel Germanus, Ioanna Dionysiou, Harald Gjermundrod, Abdelmajid Khelil, Neeraj Suri, David E. Bakken, and Carl Hauser, "Leveraging the Next-Generation Power Grid: Data Sharing and Associated Partnerships ", IEEE PES Conference on Innovative Smart Grid Technologies Europe, pp. 1–8, Gothenburg, Sweden, October 11–13, 2010, E-ISBN: 978-1-4244-8509-3 – cited by 4

¹The citation count for each paper was obtained using my citations from google scholar but it was adjusted to exclude self-citations – last updated August 30, 2017.

8. David E Bakken, Anjan Bose, Curtis Dyreson, Sudipto Bhowmik, Ioanna Dionysiou, Harald Gjermundrod, and Lin Xu, "Impediments to Survivability of the Electric Power Grid and Some Collaborative EE-CS Research to Solve Them", In Proceedings of the IEEE 4th Information Survivability Workshop, pp. C2–C5, Vancouver, BC, Canada, March 18-20, 2002 – cited by 4
9. Harald Gjermundrod and Ioanna Dionysiou, "Recirculating Lost Coins in Cryptocurrency Systems", The 1st Workshop on Digital Currencies (DC 2014), Larnaca, Cyprus, May 22, 2014, Lecture Notes in Business Information Processing series, volume 183, pp. 229–240, Springer Verlag – cited by 4
10. Ioanna Dionysiou, Deborah Frincke, David E. Bakken, and Carl Hauser, "Actor-Oriented Trust", Technical Report EECS-GS-006, Washington State University, January 2005 – cited by 4
11. Philippos Pouyioutas, Harald Gjermundrod, and Ioanna Dionysiou, "ReProTool Version 2.0 Re-engineering Academic Curriculum Using Learning Outcomes, ECTS and Bologna Process Concepts", Interactive Technology and Smart Education, Volume 9, Issue 3, pp.136 – 152, ISSN: 1741- 5659, Emerald Publishers, 2012 – cited by 3
12. Ovidiu V. Drugan, Ioanna Dionysiou, David E. Bakken, Thomas P. Plagemann, Carl Hauser, and Deborah Frincke, "On the Importance of Composability of Ad Hoc Mobile Middleware and Trust Management", 2nd International Service Availability Symposium (ISAS 2005), Berlin, Germany, April 25-26, 2005, Published in Revised Selected Papers in Lecture Notes in Computer Science Series, vol. 3694, pp. 149–163, Springer Berlin, 2005 – cited by 3
13. Ioanna Dionysiou, Deborah Frincke, Carl Hauser, and Dave Bakken, "An Approach to Trust Management Challenges for Critical Infrastructures", Proceedings of the 2nd International Workshop on Critical Information Infrastructures Security (CRITIS07), Lecture Notes in Computer Science Series volume 5141, pp. 173–184, Malaga, Spain, October 2–5, 2007, Springer Berlin – cited by 3
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