Curriculum Vitæ

Evangelos Markatos, Ph.D.

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1 Research Interests

Internet Systems and Technologies, Internet Security, the World-Wide Web, Peer-to-Peer Systems, Grid Computing, Parallel and Distributed Systems, and Operating Systems.

2 Education

- **Ph.D.** (Computer Science), University of Rochester, May 1993. "Scheduling for locality in Shared-Memory Multiprocessors".
- M.S. (Computer Science), University of Rochester, May 1990. "A multiprocessor thread-library for user-level scheduling".
- **D.Eng.** Diploma of Engineering (Computer Engineering), University of Patras, Patras, Greece, July 1988. "Performance Evaluation in Concurrency Control".

3 Funding

3.1 Grants - Principal Investigator

The following is a list of funded programs where I have been the Principal Investigator:

- Evangelos Markatos: GN3: Multi-Gigabit European Research and Education Network and Associated Services. Funded by the European Commission. budget: 100,000 euros, funding: 100,000 euros (third party involvement through GRNET). Duration: 2010-2012.
- Evangelos Markatos: HellasHPC. Funded by the General Secretariat for Research and Development. Duration: 2010-2010, budget: 3,000 euros, funding: 3,000 euros.
- Evangelos Markatos: i-Code: Real-time Malicious Code Identification Funded by the European Commission. Duration: 2010-2012, budget: 209,000 euros, funding: 146,000 euros. (**Project coordinator**)
- Evangelos Markatos: SysSec: A European Network of Excellence in Managing Threats and Vulnerabilities in the Future Internet: Europe for the World. Funded by the European Commission. Duration: 2010-2014, budget: 603,000 euros, funding: 535,000 euros. (**Project coordinator**)

- Evangelos Markatos: EGEE III Enabling Grids for E-SciencE. Funded by the European Commission. Duration: 2008-2009, budget: 64,800 euros, funding: 64,800 euros (third party involvement through GRNET).
- Evangelos Markatos: MOMENT: Monitoring and Measurement in the next Generation Technologies. Funded by the European Commission. Duration: 2008-2010, budget: 366,000 euros, funding: 274,000 euros.
- Evangelos Markatos: FORWARD: Managing Emerging Threats in ICT Infrastructures. Funded by the European Commission. Duration: 2008-2009, budget: 144,718 euros, funding: 144,718 euros.
- Evangelos Markatos: WOMBAT: Woldwide Observatory of Malicious Behaviors and Attack Threats. Funded by the European Commission. Duration: 2008-2010, budget: 465,000 euros, funding: 362,000 euros.
- Evangelos Markatos: GRID operations Center. Funded by EPISEY through a subcontract. Duration: 2006-2008, budget: 19,000 euros, funding: 19,000 euros.
- Evangelos Markatos: Emerging Risks. Funded by the ENISA (the European Network and Information Security Agency). Duration: 2006-2006, budget: 20,000 euros, funding: 20,000 euros.
- Evangelos Markatos: EGEE II Enabling Grids for E-Science. Funded by the European Commission. Duration: 2006-2008, budget: 77,112 euros, funding: 77,112 euros (third party involvement through GRNET).
- Vivi Fragopoulou and Evangelos Markatos: Safeline 2: A Greek Active Hotline in the Fight Against Cyber Crime. Funded by the European Commission through the Safer Internet Action Plan. Duration: 2007-2009, budget: 103,000 euros, funding: 51,500 euros.
- Evangelos Markatos: WISDOM: WIrespeed Security Domains using Optical Monitoring. Funded by the European Commission. Duration:2006-2008, budget: 408,380 euros, funding: 209,500 euros.
- Panos Trimintzios and Evangelos Markatos: TIGER: Together IP, GMPLS and Ethernet Reconsidered. Funded by the General Secretariat for Research and Development. Duration:1/2006-1/2008, budget: 42,500 euros, funding: 42,500 euros.
- Evangelos Markatos: MILTIADES: MultI-Layer TechnIques for Attack DEtection Systems. Funded by the General Secretariat for Research and Development. Duration:1/2006-1/2008, budget: 30,000 euros, funding: 30,000 euros.
- Evangelos Markatos: Cyberscope: towards the timely detection of and effective response to Internet-based cyberattacks. Funded by the General Secretariat of Research and Development through PENED. Duration: 2006-2008, budget: 110,000 euros, funding: 99,000 euros.
- Evangelos Markatos: ESTIA: An integrated platform for security auditing. Funded by the General Secretariat of Research and Development through PAVET-NE (subcontract from Virtual Trip). Duration: 2005-2006, budget: 12,000 euros, funding: 12,000 euros.
- Evangelos Markatos: NoAH: A European Network of Affined Honeypots. Funded by the European Commission through Unit "Research Infrastructure". Duration: 2005-2008, budget: 752,464 euros, funding: 389,284 euros.
- Evangelos Markatos: Safernet SIUCyL: Safer Internet User Cyprus Hotline. Funded by the European Commission through the Safer Internet Action Plan. Duration: 2005-2007, budget: 106,960 euros, funding: 53,480 euros.
- Evangelos Markatos: EGEE- Enabling Grids for E-Science and Industry in Europe. Funded by the European Commission through contract 508833. Duration: 2005-2006, budget: 49,000 euros, funding: 49,000 euros (third party involvement through GRNET).

- Evangelos Markatos: Safeline: A Greek Active Hotline in the Fight Against Cyber Crime. Funded by the European Commission through the Safer Internet Action Plan. Duration: 2005-2007, budget: 106,960 euros, funding: 53,480 euros.
- Evangelos Markatos: LOBSTER: Large Scale Monitoring of BroadBand Internet Infrastructure. Funded by the European Commission. Duration: 10/2004-12/2006, budget: 622,375, funding: 364,332 euros. The proposal ranked first among all related proposals in its action line priority achieving a score of 23/25.
- Evangelos Markatos: COREGRID: European Research Network on Foundations, Software Infrastructures and Applications for large scale distributed, Grid and Peer-to-Peer Technologies. Funded by the European Commission. Duration: 9/2004-9/2008, budget: 227,157 euros, funding: 104,069 euros.
- Evangelos P. Markatos SecSPeer: Secure and Scalable peer-to-peer computing and communication systems. Funded by the General Secretariat for Research and Development. Duration: 6/2004-6/2006, budget: 45,000 euros, funding: 45,000 euros. The proposal received a score of 91/100 and was ranked first among all proposals submitted in the area of Transport, Networks, and Telecommunications.
- Evangelos Markatos: EAR: Early-warning system for automatic detection of Internet-based cyberattacks. Funded by the General Secretariat for Research and Development. Duration:1/2004-1/2006, budget: 45,000 euros, funding: 45,000 euros.
- Evangelos Markatos: i-Guard: an integrated system for network-based intrusion detection. Funded by the General Secretariat for Research and Development. Duration: 11/2003-5/2005, budget: 35,000 euros, funding: 35,000 euros.
- Evangelos Markatos: Netwatch: A Greek Active Hotline in the Fight Against Cyber Crime. Funded by the European Commission through the Safer Internet Action Plan. Duration: 1/10/2002-30/9/2004, budget: 72,000 euros, funding: 37,000 Euros.
- Evangelos Markatos: Question How: Quality Engineering Solutions via Tools, Information and Outreach for the New Highly-enriched Offerings from W3C: Evolving the Web in Europe. Funded by the European Commission through a subcontract from INRIA. Duration: 2002-2003, budget: 92,000 euros, funding: 92,000 euros.
- Evangelos Markatos: SCAMPI: A Scalable Measurement Platform for the Internet. Funded by the European Commission. Duration: 1/4/2002-31/5/2005, budget: 794,950 euros, funding: 397,475 euros.
- Evangelos P. Markatos: Paperfinder: Effective discovery on the World Wide Web. Funded by the USENIX Association. Duration: 1998-2000, budget: \$19,000, funding: \$19,000.
- Evangelos P. Markatos: RAMDISK: A Network Memory Filesystem. Funded by the USENIX Association. Duration: 1998-2000, budget: \$14,000, funding: \$14,000,
- Evangelos P. Markatos: USEwebNET: Amortized searching on the World Wide Web. Funded by the USENIX Association. Duration: 1998-2000, budget: \$9,000, funding: \$9,000.
- Evangelos Markatos: Exploiting Idle Memory in Workstation Clusters. Funded by the General Secretariat for Research and Development through program PENED 95. Duration: 1997-1998, budget: 8 Mdrhs, funding: 8 Mdrhs (=\$30,000).
- Evangelos P. Markatos: Analyzing Cache Behavior of memory-intensive applications. Funded by the USENIX Association. Duration: 1998-2000, budget: \$15,000, funding: \$15,000

3.2 Equipment Grants - Principal Investigator

The following is a list of equipment grants where I have been the Principal Investigator:

- Evangelos Markatos: HellasGrid: Design and Development of a pilot infrastructure for the provision of advanced GRID services. Equipment grant from GRNET. Duration: 2005-2010, budget: 150,000 euros, funding: 150,000 euros.
- Evangelos Markatos: IXP-1200 network processors for network monitoring and security monitoring. Funded by Intel Inc. (equipment donation). Duration: 2003, budget: 14 IXP1200 network development boards, costing close to 70,000 euro.

3.3 Marie Curie and PostDoc Grants - Scientist in Charge

The following is a list of Marie Curie - Postdoc Grants where I have been the Scientist in Charge:

- Dimitris Antoniades: Traffic Classification on the Internet. Funded by the Greek Ministry of Education, through program Heraklitos II (in negotiations) Duration 2011-2013, budget: 45,000 euros, funding: 45,000 euros.
- Thomas Karagiannis: PRAWN: Automated Traffic Profiling of Internet Services. Funded by the European Commission, Marie Curie Grants (FP7-PEOPLE-2009-IEF). (in negotiations) Duration 2010-2012, budget: 147,997 euros, funding: 147,997 euros.
- Michalis Polychronakis: MALCODE: Malicious Code Detection using Emulation. Funded by the European Commission, Marie Curie Grants (FP7-PEOPLE-2009-IOF). Duration 2010-2013, budget: 230,000 euros, funding: 230,000 euros.
- Elias Athanasopoulos: On the Misuses of Real World Large Scale Distributed Systems Microsoft Research PhD Scholarship Programme Duration 2008-2010, budget: 100,000 euros, funding: 100,000 euros.
- Sotiris Ioanidis: PASS: Privacy Architectures for System Services Funded by the European Commission, Marie Curie Grants (FP7-PEOPLE-2007-4-3-IRG), MIRG. Duration 2008-2012, budget: 100,000 euros, funding: 100,000 euros.
- George Apostolopoulos: PROFP: Programmable Forwarding Planes for Next Generation Routers. Funded by the European Commission, Marie Curie Grants. Duration 2005-2008.
- Angelos Bilas: ATHLOS: Architectures of Commodity Hardware Blocks and Operating Systems. Funded by the European Commission, Marie Curie Grants. Duration 2005-2008, budget: 80,000 euros, funding: 80,000 euros.
- George Apostolopoulos: MultiCoPlane: Architectures of Commodity Hardware Blocks and Operating Systems Funded by the European Commission, Marie Curie Grants. Duration 2005-2008, budget: 80,000 euros, funding: 80,000 euros.
- Vivi Fragopoulou: Multicast Problems in Multipoint Communication. Funded by the European Commission. Duration: 2000-2002, budget: 48,000 euros, funding: 48,000 euros.

4 Employment History

University of Rochester

Fall 88 - Summer 92

Teaching/Research Assistant

GTE Labs

Summer 90 Programmer

Design and implementation of the transaction subsystem of a distributed system, part of the DOM project at GTE. Developed a transaction system based on nested transactions and rules, and investigated its suitability as a general purpose programming mechanism for distributed systems [c2].

Technical University of Crete

Fall 92 - Summer 93

Visiting Assistant Professor

Teaching of the Operating Systems, C and Unix, and the Computer Architecture undergraduate courses.

University of Crete

Fall 94 - Spring 96 Spring 96 - Fall 99 Fall 99 - Summer 01 Summer2001 - Summer 2005 Summer2005 - Elected Assistant Professor Appointed Assistant Professor Tenured Assistant Professor Associate Professor Elected Professor

Teaching of various courses including Operating Systems, Internet Systems and Technologies, Parallel Systems and Grids, Introduction to Programming, Parallel Programming, Computer Architecture, and Parallel Computer Architecture

FORTH-ICS

Fall 92 - Spring 05

Associated Researcher

Spring 05 – Head and founder of the Distributed Computing Systems Lab

Our research at ICS-FORTH deals with

- workstation clustering, high-speed network interfaces, remote memory paging, main memory databases (1992-2000)
- embedded systems network processors (1999–)
- The World-Wide Web, latency reduction/tolerance, resource discovery and web searching, content transcoding, device independence ((1996–)
- Network monitoring (2001–)
- Internet security, intrusion detection (2001–)
- Peer-to-peer systems and GRIDS. (2001–)

5 Management Positions

• 2010 -: Project Manager of the SysSec EU-cofunded Network of Excellence

achievement: received close to 2.5 million euros of funding for the project. **achievement:** the SysSec proposal was ranked first in its category.

• 2010 -: Project Manager of the i-Code EU-cofunded project

achievement: received close to 730 thousand euros of funding for the project.

• 2005 – : Head and Founder of the Distributed Computing Systems Lab at FORTH/ICS

achievement: attracted more than 2 million euros of funding. **achievement:** attracted 5 Ph.D. holders to the lab as researchers.

• 2005 – 2007 : Project Manager of the LOBSTER EU-cofunded project

achievement: received close to 2 million euros of funding for the project. **achievement:** the LOBSTER proposal was ranked first in its category.

• 2005 – 2007: Project Manager of the NoAH EU-cofunded project

achievement: received close to 2 million euros of funding for the project.

• 2003 – 2008 : Head of the Greek W3C (World-Wide Web Consortium) Office 2001 – 2002 : Co-ordinator of the Greek W3C (World-Wide Web Consortium) Office

achievement: Received support from the European Union through project QUESTION HOW totaling close to 70,000.00 EURO.

achievement: increased the number of Greek W3C members from one (in 2002) to five (in 2005)

6 Professional Activities

6.1 Paper Reviewer

6.1.1 Journals

Communications of the ACM, Computer (IEEE), ACM Transactions on Computer Systems, IEEE/ACM Transactions on Networking, ACM Transactions on Embedded Computer Systems, ACM Transactions on Internet Technology, ACM SIGCOMM Computer Communications Review (CCR), IEEE Transactions on Parallel and Distributed Systems, IEEE Transactions on Software Engineering, IEEE Transactions on Computers, IEEE Transactions on Knowledge and Data Engineering, IEEE Parallel and Distributed Technology: Systems and Applications, IEEE Software, IEEE Proceedings, Computer Networks (Elsevier), Future Generation Computer Systems Journal (Elsevier), International Journal of Computers and Applications, Journal of Computer Networks and Applications (Elsevier Science BV), Journal of Grid Computing (Elsevier Science BV), Journal of Parallel and Distributed Computing, Journal of Selected Areas in Communication (JSAC), Journal of Systems and Software (JSS) Journal of Telecommunication Systems, Methods of Information in Medicine (MiM), Parallel Computing, Real-Time Systems: The International Journal of Time-Critical Computing, Software Practice and Experience, SCS Transactions - Applications of Modeling and Computer Simulation, Tsinghua Science and Technology (Journal).

6.1.2 Refereed Conferences

Symposium on Parallel and Distributed Computing, Symposium on Operating Systems Principles, IEEE International Conference on Distributed Computing Systems, IEEE International Conference on Communications, International Conference on Supercomputing, International Parallel Processing Symposium, International Conference on Very Large Data Bases (VLDB), International Symposium on Integrated Network Management, INFOCOM, Symposium on Experiences with Distributed and Multiprocessor Systems, International Conference on Parallel Processing, Real-Time Systems Symposium, International Symposium of Computer Architecture, Hellenic Conference on Informatics, Europar, International Conference on Service Oriented Computing, World Transputer Congress, High Performance Computer Architecture, European Conference on Digital Libraries, Communication and Architectural Support for Network-based Parallel Computing, International Conference on Dependable Systems and Networks (DSN), IASTED International Conference on Communications and Computer Networks, IEEE International Conference on Cluster Computing.

6.2 Organization Reviewer

Reviewer for ENISA Deliverables

6.3 Project Reviewer

NANOS European Union IT project (primary reviewer), POP European Union FET IST project.

6.4 Project Proposal Reviewer

- Hong-Kong Research Grants Council (RGC).
- PROGRESS: the Dutch PROGramme for Research on Embedded Systems

- European Union Information Society Technologies -
 - Future and Emerging Technologies
 - Research Infrastructures
- Ministry of Development GSRT
 - Greek-Italian Cooperation
 - Greek-German Cooperation
- Ministry of Education
 - EPEAEK Proposals for Heraklitos Program on Graduate Studies

6.5 Program Committees

6.5.1 Steering Committee Member

• EC2ND (European Conference on Computer Network Defence)

6.5.2 PC Chair - General Chair

- DIMVA 2012 (Conference on Detection of Intrusions and Malware & Vulnerability Assessment IEEE
 Springer)
- EuroSEC 2009 (Second European Workshop on System Security ACM)
- EuroSEC 2008 (First European Workshop on System Security ACM)
- CMS 2006 (IFIP Conference on Communications and Multimedia Security)
- Europar 2004 (Vice Chair for Scheduling and Load Balancing)

6.5.3 Program Committee Member

- International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS 2012)
- International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS 2011)
- 16th IEEE International Symposium on Computer Communications (ISCC 2011)
- 18th International Conference on Telecommunications (ICT 2011).
- Financial Cryptography (2011).
- 14th IEEE Global Internet Symposium (2011).
- OTM IS 5th International Symposium on Information Security (2010).
- European Conference on Computer Network Defence 2010 (EC2ND 2010)
- International Conference on Security and Cryptography (SECRYPT 2010)
- European Workshop on Computer Systems Security (EuroSec2010).
- ACM SIGKDD Workshop on CyberSecurity and Intelligence Informatics (CSI-KDD 09)
- European Workshop on Computer Systems Security (EuroSec2009).

- OTM IS 4th International Symposium on Information Security (2009).
- IFIP Traffic Monitoring and Analysis (TMA) Workshop (2009).
- Workshop on Open Source Software for Computer and Network Forensics 2008.
- IEEE End-to-End Monitoring Workshop 2007 (E2EMON 08).
- Third International Conference on Information Security (IS) 2008
- Third Greek Open Source Conference (2008).
- Computer and Network Security Symposium of the ACM International Wireless Communications and Mobile Computing Conference 2008 (IWCMC 08).
- First Hellas Grid User Forum (2008).
- European Workshop on Computer Systems Security (EuroSec2008).
- International Workshop on Secure and Multimodal Pervasive Environments (SMPE) 2007
- Second International Conference on Information Security (IS) 2007
- Workshop in Information Security Theory and Practices 2007 Smart Cards, Mobile and Ubiquitous Computing Systems (WISTP 2007)
- The 2007 International Workshop on Security Modeling in Per-com (SMP 07).
- IEEE End-to-End Monitoring Workshop 2007 (E2EMON 07).
- International Conference of Parallel Processing (ICPP) 2007
- IEEE International Conference of Distributed Computing Systems (ICDCS) 2007
- First International Workshop on Information Security (IS) 2006
- 6th Austrian-Hungarian Workshop on Distributed and Parallel Systems DAPSYS 2006
- ACM SIGMETRICS/PERFORMANCE 2006
- Second International Conference on Embedded Software and Systems (ICESS 2005).
- IFIP/IEEE International Symposium on Intergrated Network Management (IM 05).
- IEEE End-to-End Monitoring Workshop 2005 (E2EMON 05).
- The 17th Symposium on Computer Architecture and High Performance Computing (SBAC-PAD 2005)
- Third European HealthGrid Conference, 2005
- ICS 2004 Workshop on Component Models and Systems for Grid Applications
- Europar 2004
- Second European HealthGrid Conference, 2004
- ACM Symposium on Applied Computing, 2004
- IEEE International Conference of Distributed Computing Systems (ICDCS) 2004
- IEEE International Symposium on Signal Processing and Information Technology 2003
- International Conference of Parallel Processing (ICPP) 2003
- Balkan Conference in Informatics (BCI) 2003

- Panhellenic Conference in Informatics (PCI) 2003
- Workshop on Web Request Modeling and Prediction, in association with the Eighteenth International Joint Conference on Artificial Intelligence, 2003
- First European HealthGrid Conference, 2003
- International Parallel and Distributed Processing Symposium 2003
- The 14th Symposium on Computer Architecture and High Performance Computing (SBAC-PAD 2002)
- International Workshop on Web Content Caching and Distribution (WCW 2002)
- International Conference of Parallel Processing (ICPP) 2002
- Workshop on Agent based Cluster and Grid Computing 2002, held in association with the IEEE International Symposium on Cluster Computing and the Grid (CCGrid'2002)
- IEEE International Symposium on Cluster Computing and the Grid (CCGrid'2002)
- 2001 International Conference on Computational Science (ICCS'2001), Technical Session on Cluster Computing
- IEEE International Symposium on Cluster Computing and the Grid (CCGrid'2001)
- 10th International World Wide Web Conference (WWW10 May 2001)
- Cluster Computing workshop at HPCN2000
- The 8th Workshop on Hot Topics in Operating Systems (HotOS-VIII), 2001
- 9th International World Wide Web Conference (WWW9 May 2000) (I was the only non-US member of the 16 Program Committee members specializing in Performance)
- Parallel Architectures and Compilation Techniques 99 (PACT 99)
- Workshop on Communication, Architecture, and Applications for Network-based Parallel Computing (CANPC) 99
- IEEE International Parallel Processing Symposium (IPPS) 98
- Euromicro 97

6.6 Service in Committees

6.6.1 International Committees

- 2007–2009: Member of the Permanent Stakeholders' Group of ENISA (European Network and Information Security Agency) (second term). 2005–2007: Member of the Permanent Stakeholders' Group of ENISA (European Network and Information Security Agency) (first term).
- 2006–2007: Member of the Expert Group of ESFORS (http://www.esfors.org)
- 1996 : Member of the ERCIM (European Research Consortium on Informatics and Mathematics) Working Groups
 - 1996 1999: Parallel Processing Network
 - **1999 2000:** Working Group on the World Wide Web
 - **2001 2002**: Working Group on Grid Computing

- 2002 2004: Working Group on Dependable Embedded Systems
- 1999 2002: Member of the Advisory Committee of the IEEE CS Task Force on Cluster Computing (TFCC)
- 1998 2002: Director of the High-Performance Computing Facility of the University of Crete.
- 1997 : Campus Representative for the USENIX Association
 - achievement: Received grants from USENIX totaling \$57,000.00 USD.
- 1997 2002: Member of the International Relations Committee of the University of Crete achievement: tripled ERASMUS/SOCRATES student mobility between 1997 and 2000.

6.6.2 National Committees

- 2004–2005: Member of the Committee for new technologies. Municipality of Heraklion, Crete.
- 2002-2004: HellasGRID Working Task Force, Member.
- 1998 1999: Coach of the Computer Science Department's programming team.
 - achievement: 1998: Second place in the Panhellenic Programming Contest among Greek Universities in 1998.
 - achievement: 1999: Fourth place in the Panhellenic Programming Contest among Greek Universities in 1999.
- 1998 2000: Member of the committee for the reorganization of the undergraduate Computer Science Curriculum for the Computer Science Department of the University of Ioannina
- 1997 -2002: Undergraduate Studies Committee, Computer Science Department,
 - -1997 -2001: member -2002 -2002: chair

University of Crete

1997 – 2000: Member of the Board of Directors of the Center for Professional Studies of the University
of Crete.

6.6.3 Ph.D. Theses Committees

• Michai Cristea, "Network Monitoring on Network Processors", Leiden University, 2007.

6.7 Invited (non-conference) Talks

Using Memory (or Cache) Affinity in Scheduling on Shared-Memory Multiprocessors.

- The Pennsylvania State University
- The University of Pittsburgh
- Argonne National Laboratory
- Dartmouth College
- University of Pennsylvania
- The University of Delaware
- Boston University

Reliable Remote Memory Paging

- UPC, Spain March 1996
- CNUCE, CNR, Pisa, Italy December 1996
- U of Texas, San Antonio January 1997

Web-conscious storage management for web proxies

- Compaq, Malrborough, MA, USA newblock October 2000
- Akamai Technologies, Boston, MA, USA newblock October 2000

High-Performance Computing Research in Crete

• Compaq, Malrborough, MA, USA newblock October 2000

LOBSTER: Large Scale Monitoring of Broadband Internet Infrastructure

• The TERENA Networking Conference, Rhodos, Greece June 2004

Network Monitoring

• Workshop on Security in (M& W) Heterogeneous Networks, Brussels, Belgium September 2004

What is the GRID?

• COMDEX, Athens, Greece November 2004

Passive Network Monitoring

• Workshop on Security Issues in Heterogeneous Networks, Brussels, Belgium December 2004

Writing a successful proposal: The NoAH Approach

• Workshop on Research Infrastructures, Athens, Greece. December 2004

Cyberattack detection and mitigation. The SCAMPI and LOBSTER approach.

• Seminar Talk, National Technical University of Athens, Greece. March 2004

High Performance Computing Access and Support for Scientific Computing in Crete and Greece

• Invited Talk, First Cretan Bioinformatics Forum, Crete, Greece June 2006

Safety and Security in peer-to-peer systems

• Invited Talk, Electronic Crime 2006, Athens, Greece October 2006

Emerging Issues in Security

• Invited Talk, Threats on the Internet Seminar, Brussels, Belgium. October 2006, http://cordis.europa.eu/ist/trust-security/publications.htm.

Emerging Issues in Security

• Invited Talk, Workshop on System Dependability and Security - part of EU-US Summit Series on CyberTrust, Dublin, Ireland. November 2006

Emerging Risks in Network and Information Systems Security

Invited Talk, ENISA (the European Network and Information Security Agency). February 2007
 Large Scale Attacks on the Internetessons learned from the LOBSTER project

• Invited Talk, in "Learning from large scale attacks on the Internet, Policy implications", Brussels, European Commission. January 2008

Information Collection for Emerging and Future Risks

- Invited Talk, in EUROSEC 08. March 2008
- Invited Talk, in ENISA-PSG meeting. April 2008
- Invited Talk, in ENISA-FORTH Summer School. September 2008

An Open Platform for Planning, Developing, Publicly Discussing, Finding Consensus, Publishing, Disseminating, and Maintaining Open IT-Standards: WWW, in 3rd Hellenic HL7-Hellas Conference, October 2008.

Tracing Cyberattackers in the Internet, ADAE Information Day, Heraklion December 2008.

Real World Polymorphic Attack Detection, Goergia Tech September 2009.

Threats on the Future Internet Future Internet Assembly (FIA), Valencia, April 2010.

6.8 Keynote Talks

Security Risks: Virus and Worms

• 4th Concertation Meeting of IST-FP6 Communication and Network Technologies projects and associated clusters, Brussels, Belgium, March 2005. http://www.cordis.lu/ist/directorate_d/cnt/neweve/concertation/4_05concertagenda.htm

7 Teaching Experience

7.1 Courses Taught/Developed

- HY 647 Topics in Parallel Operating Systems (new course), (joint teaching with Christos Nikolau), University of Crete, Fall 1992.
- LOG 203 Software Technology, Technical University of Crete, Fall 1992.
- LOG 301 Operating Systems (new course), Technical University of Crete, Fall 1992.
- ARCH 302 Computer Architecture (new course), Technical University of Crete, Spring 1993.
- HY 425 Computer Architecture, University of Crete, Spring 1995.
- HY 443 Parallel Programming, University of Crete, Fall 1995, 1996, 1997, 1998, 1999.
- HY 527 Parallel Computer Architectures (new course), University of Crete, Fall 94 (with M. Katevenis and D. Serpanos), Fall 1995, Fall 1996, Spring 1998.
- HY 345 Operating Systems, University of Crete, Spring 1996-2005.
- HY 150 Introduction to Programming (new course), University of Crete, Spring 1999, 2000, 2001.
- HY 558 Internet Technologies and Systems (new course), University of Crete, 2000-2005.
- HY 555 Parallel Systems and Grids (new course), University of Crete, 2001-2005.

8 Publications

8.1 Citations

Science Citation Index: 349 citations (excluding self-citations) as of January 2007, counted by EKT (The National Documentation Center).

ResearchIndex: 604 Citations (as of May. 2005 excluding self-citations).

8.2 Patents

[p1] Evangelos Markatos, Manolis Katevenis, and Penny Vatsolaki: Notification of message arrival in a parallel computer system Patent application number 97410036.4, (Europe) March 19th 1997

8.3 Invited Book Papers

- [b1] Evangelos P. Markatos: Multiprocessor Synchronization Primitives with Priorities. In Y.-H. Lee, C.M. Krishna (Eds.). Readings in Real-Time Systems, IEEE Computer Society Press, Los Alamitos, California, 1993, also appeared in W. Halang and K. Ramamritham (Eds.). Real-Time Programming, pages 1-7, Pergamon Press, 1992 (ISBN 0 08 041282 3).
- [b2] Evangelos P. Markatos, and Thomas J. LeBlanc: Locality-Based Scheduling in Shared-Memory Multiprocessors In Parallel Computing: Paradigms and Applications, edited by Albert Zomaya, Chapman and Hall Series on Parallel Computing, International Thomson Computer Press, Jesshope and Sahni editors, ISBN 1-85032188-4, 1996.
- [b3] Evangelos P. Markatos and Thomas J. LeBlanc: Multiprogramming and Multiprocessing. In Encyclopedia of Electrical and Electronic Engineering. Edited by J.G. Webster, volume 14, pp. 25-35, 1999, John Wiley and Sons, Inc, Publishers, 1999, ISBN 0-471-13946-7.
- [b4] Michail D. Flouris, Evangelos P. Markatos: Network RAM. In High Performance Cluster Computing. Edited by Buyya Rajkumar, pages 383-408, Prentice Hall, USA, ISBN 0-13-013784-7, 1999. Translated in Chinese, ISBN 7-5053-6770-6, Publishing House of Electronics Industry (PHEL), Beijing, China. Translators: Zhen Weiming, Shi Wei, Wang Dongshen
- [b5] Evangelos P. Markatos, Antonis Danalis: Web Caching. In Enterprise Networking: Multilayer Switching and Applications. Edited by V. Theoharakis and D.N. Serpanos. pp. 234-248. Idea Group Publishing, ISBN: 1930708173, 2002.
- [b6] S. Ioanidis, A.E. Papathanasiou, G. Maglis, E.P. Markatos, D. Pnevmatikatos and J. Sevaslidou, "On Using Reliable Network RAM in Networks of Workstations" Cluster Computing, pp. 109-121, Chapter 10, 2001, ISBN 1-59033-113-3, Nova Science Publishers, USA.

8.4 Journal Papers

[j1] Michael L. Scott, Thomas J. LeBlanc, Brian D. Marsh, Timothy G. Becker, Cezary Dubnicki, Evangelos P. Markatos and Neil G. Smithline, Implementation Issues for the Psyche Multiprocessor Operating System. In Computing Systems, Winter 1990, pp. 101-137.

- [j2] E.P. Markatos and T.J. LeBlanc Using Processor Affinity in Loop Scheduling on Shared-Memory Multiprocessors. In IEEE Transactions on Parallel and Distributed Systems¹, April 94, v 5 n 4, pp 379-400.
- [j3] Evangelos P. Markatos, Main Memory Caching of Web Documents. In Computer Networks and ISDN Systems, volume 28, issues 7-11, pages 893-906, 1996.
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