

Curriculum Vitae

George Xylomenos

Contact Information

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Research Interests

- Future Internet design: architecture and protocols.
- Design and performance evaluation of distributed storage systems.
- Quality of service provisioning: architecture and protocols.
- Communication protocols for mobile hosts and wireless networks.
- System software for mobile hosts and wireless networks.
- System software for differentiated and integrated services.
- Wireless network performance evaluation and modeling.
- Operating system performance evaluation and modeling.
- Multicast and multimedia communication protocols for heterogeneous networks.
- System software for multicast and multimedia in heterogeneous networks.

Education

- Ph.D. in Computer Science, University of California, San Diego (UCSD), Dept. of Computer Science and Engineering, July 1999. Thesis title *Multi Service Link Layers: An Approach to Enhancing Internet Performance over Wireless Links*, thesis advisor Prof. G.C. Polyzos.
- C.Phil. in Computer Science, University of California, San Diego (UCSD), Dept. of Computer Science and Engineering, December 1997.
- M.S. in Computer Science, University of California, San Diego (UCSD), Dept. of Computer Science and Engineering, March 1996. GPA: 4.0/4.0.
- B.S. in Informatics (Computer Science concentration), Athens University of Economics and Business (AUEB), Dept. of Informatics, Athens, Greece, July 1993. Thesis title *Computer System Performance Evaluation through Operating System Kernel Simulation*, thesis advisor Prof. J.C. Cavouras. GPA: 9.25/10.

Employment Experience

Teaching

- Associate Professor (System Software) since February 2015, Assistant Professor since April 2007 and Lecturer since June 2002, AUEB, Dept. of Informatics. Have taught the *Operating Systems, Computer Communications, Computer Networks, Distributed Systems, Mobile and Ubiquitous Systems, Multimedia Technology, Data Structures, Computer Systems Organization* and *Digital System Design* classes.
- Member of the workgroup developing alternative and supplementary educational materials for the *Telematics, Internetworks and Society* course set of the *Undergraduate Program in Informatics* of the Hellenic Open University.
- Visiting Lecturer, AUEB, Dept. of Informatics, Spring 2002. Responsible for the *Multimedia Technology* class.
- Instructor in Computer Applications in Hellenic Navy seminars at the Armed Forces Computer Programming School, Athens, Greece, November 2000 to October 2001. Responsible for teaching theoretical and laboratory classes and writing lecture notes for word processing, spreadsheet, presentation, networking and database applications under Commander J. Kostivras, HN, MSEE/MSCS.
- Graduate Teaching Assistant, UCSD, Dept. of Computer Science and Engineering, Winter 1995 to Fall 1998. Responsible for teaching laboratory classes, writing laboratory notes and supervising student projects for the *Computer Networks* and *Communication Networks* (graduate) classes under Prof. G.C. Polyzos and for the *Operating Systems* and *Software Engineering* classes under Prof. W.E. Howden.
- Instructor in Computer Applications in European Union sponsored seminars at the Greek National Youth Institute, Athens, Greece, Fall 1993. Responsible for teaching theoretical and laboratory classes for word processing, spreadsheet and database applications.
- Undergraduate Teaching Assistant, AUEB, Dept. of Informatics, Fall 1992. Responsible for teaching laboratory classes and writing laboratory notes on the LEX and YACC tools for the *Advanced Topics in Compilers* class under Prof. M.S. Sideri.

Research

- Associate Professor (System Software) since February 2015, Assistant Professor since April 2007 and Lecturer since June 2002, AUEB, Dept. of Informatics. Member of the Mobile Multimedia Laboratory (MMLab).
- Research Associate, October 2016 to June 2017, Communication and Information Systems Group, Department of Electrical and Electronic Engineering, University College London, collaborating with Professor George Pavlou and Lecturer Ioannis Psaras.
- Postdoctoral Researcher, AUEB, Dept. of Informatics, collaborating with Prof. G.C. Polyzos, January 2002 to June 2002 and December 1999 to November 2000.
- Graduate Research Assistant, UCSD, Computer Systems Laboratory and Center for Wireless Communications, collaborating with Prof. G.C. Polyzos, February 1996 to July 1999.
- Visiting Researcher, AUEB, Center for Economics Research, collaborating with Prof. E.I. Giakoumakis, Summer 1996.

Industry

- Scientific co-ordinator of the Network Operations Center since June 2009, AUEB. Responsible for planning and supervising the maintenance, upgrade and extension projects for the voice and data network and server infrastructure at AUEB.

- Consulting Expert, Information Society, Athens, September 2006 to September 2009. Responsible for the evaluation of funding proposals and the certification of funded projects.
- Division Head, Information Technology and Telecommunications Division, Qualco Business Systems, Athens, Greece, May 2001 to August 2002. Responsible for all internal and external Information Technology and Telecommunications projects performed by the company.
- Consulting Expert, Ministry of Transportation and Telecommunications, Athens, Greece, Fall 1999. Responsible for monitoring the contract to design a new Greek National Numbering Scheme.
- System and Network Administrator at the Computer Systems Laboratory, UCSD, February 1996 to July 1999. Responsible for the installation, administration and maintenance of all computer systems and network infrastructure as well as main technical contact for the laboratory.
- Translator of computer textbooks from English to Greek, Klidarithmos Publishing, Athens, Greece, September 1991 to November 1992. Responsible for producing technical translations and the first stages of production and copy editing.

Academic Distinctions

- Future Internet Award, FP7 PURSUIT project, 2013.
- Best non-student paper award, European Wireless Conference, 2007.
- National Semiconductor Corporation, Graduate Fellowship, 1996. The fellowship provided full tuition/fees plus stipend for one academic year to exceptional Ph.D. students.
- Best student award, Comprehensive Examination, UCSD, Dept. of Computer Science & Engineering, September 1995.
- Best student award, AUEB, Dept. of Informatics, during all four academic years (1989–1993).

Research Projects

- *POINT: iP Over Icn- the betTer IP*, collaboration between AUEB, Aalto University (Finland), Ell-i open source co-operative (FI), RWTH Aachen University (Germany), University of Essex (UK), InterDigital Europe Ltd (UK), Intracom SA, Primetel PLC (CY) and CTVC Ltd (UK), funded by the European Union under the H2020/ICT program, 2015-2017.
- *I-CAN: Information-Centric future mobile and wireless Access Networks*, funded by the Greek General Secretariat of Research and Technology under the ARISTEIA II program, 2014-2015.
- *MUSINET: Comprehensive Design and Implementation of a Networked Music Performance System*, collaboration between AUEB, the University of Crete, the University of Athens and the TEI of Crete, funded by the Greek General Secretariat of Research and Technology under the THALIS program, 2012-2015.
- *DISFER: DIstributed Sensor systems For Emergency Response*, collaboration between AUEB, the University of Athens, the Foundation of Research and Technology and the University of Patras, funded by the Greek General Secretariat of Research and Technology under the THALIS program, 2012-2015.
- *PURSUIT: Publish-Subscribe Internet Technology*, collaboration between AUEB, Aalto University (Finland), Oy LM Ericsson AB (Finland), RWTH Aachen University (Germany), University of Cambridge (UK), University of Essex (UK), CTVC Ltd (UK) and Center for Research and Technology Hellas, funded by the European Union under the FP7/ICT program, 2010-2012.

- *PSIRP: Publish-Subscribe Internet Routing Paradigm*, collaboration between AUEB, Helsinki University of Technology (Finland), Oy LM Ericsson AB (Finland), Nokia Siemens Networks Oy (Finland), RWTH Aachen University (Germany), British Telecom (UK), University of Cambridge (UK) and Institute for Parallel Processing of the Bulgarian Academy of Sciences, funded by the European Union under the FP7/ICT program, 2008-2010.
- *EIFFEL: Evolved Internet Future for European Leadership*, collaboration between AUEB, RWTH Aachen University (Germany), British Telecom (UK), University of Cambridge (UK), Alcatel-Lucent Bell NV (Belgium), Josef Stefan Institute (Slovenia), University College London (UK), Groupe des Ecoles des Telecommunications (France) and European Institute for Research and Strategic Studies in Telecommunications GMBH (Germany) funded by the European Union under the FP7/ICT program, 2008-2010.
- *B-BONE: Broadcasting and Multicasting over Enhanced UMTS Mobile Broadband Networks*, collaboration between AUEB, University of Cyprus, Aristotle University of Thessaloniki, PTIN (Portugal), ADETTI (Portugal), IST (Portugal), Motorola (UK) and Alcatel SEL (Germany), funded by the European Union under the FP6/IST program, 2004-2006.
- *Mobile Services*, AUEB, funded by the Greek Ministry of Education, 2004-2006.
- *Transmission of Video and Audio with Guaranteed Quality of Service over IP networks*, collaboration between AUEB, the University of Athens and the University of Crete, funded by the Greek General Secretariat of Research and Technology, 2000-2001.
- *Enhanced Performance Protocols for Wireless Access to the Internet*, UCSD, funded by Rockwell Semiconductor Systems, the TRW Foundation and the State of California, 1998.
- *Internet Performance Optimizations for Wireless Links*, UCSD, funded by Sprint Corporation, 1997.
- *Multicast for Wireless Networks with Mobile Stations*, UCSD, funded by National Semiconductor Corporation and the State of California, 1996-1998.
- *Broadband Wireless Multimedia Communications*, UCSD, funded by the US Army Research Office (ARO), 1995-1997.

Editorial Board Member

- 2016–: IEEE Transactions on Mobile Computing (Associate Editor).

Technical Program Committee Chair

- 2016: International Conference on New Technologies, Mobility and Security (New Technologies Track).

Technical Program Committee Member

- 2018: IEEE International Conference on Communications.
- 2017: IEEE International Conference on Communications, IEEE Global Communications Conference, IEEE Consumer Communications and Networking Conference.
- 2016: IFIP Networking, IEEE International Conference on Communications, IEEE Global Communications Conference, IEEE Consumer Communications and Networking Conference.
- 2015: IFIP Networking, IEEE International Conference on Communications, IEEE Global Communications Conference, International Conference on New Technologies, Mobility and Security.

- 2014: IFIP Networking, International Conference on New Technologies, Mobility and Security, International Conference on Network Protocols PhD forum.
- 2013: IFIP Networking, International Conference on Computer Communication Networks, International Conference on Network Protocols PhD forum, ACM SIGCOMM Workshop on Information-Centric Networking, International Conference on New Technologies, Mobility and Security.
- 2012: ACM SIGCOMM Workshop on Information-Centric Networking, International Conference on New Technologies, Mobility and Security.
- 2011: International Conference on New Technologies, Mobility and Security, International Mobile Multimedia Communications Conference.
- 2010: Future Network and Mobile Summit, International Conference on Network and System Security, International Mobile Multimedia Communications Conference.
- 2009: International Mobile Multimedia Communications Conference, International Workshop on Context-Aware Multimedia Content Delivery.
- 2008: International Workshop on Distributed Systems: Operations and Management, International Conference on Performance Evaluation Methodologies and Tools.
- 2007: Wireless Rural and Emergency Communications Conference.

Publications

Books and Dissertations

- [D.4] *Multimedia Technology and Multimedia Communications* (in Greek), George Xylomenos and George C. Polyzos, Klidarithmos, Athens, Greece, 2009.
- [D.3] *Distributed Systems with Java* (in Greek), 3rd Edition, John Cavouras, John Milis, George Xylomenos and Ekaterini Roukounaki, Klidarithmos, Athens, Greece, 2011.
- [D.2] *Multi Service Link Layers: An Approach to Enhancing Internet Performance over Wireless Links*, George Xylomenos, Ph.D. Dissertation, University of California, San Diego, Dept. of Computer Science and Engineering, 1999.
- [D.1] *Operating System Kernel Simulator, C Implementation Manual* (in Greek), George Xylomenos, B.S. Dissertation, Athens University of Economics and Business, Dept. of Informatics, Athens, Greece, 1993.

Refereed Journals

- [J.20] *An Improved Scheme for Protecting Medical Data in Public Clouds*, Nikos Fotiou and George Xylomenos, *Springer Communications in Computer and Information Science*, vol. 736, 2017, pp. 66–79.
- [J.19] *Access control as a service for the Cloud*, Nikos Fotiou, Apostolis Machas, George C Polyzos and George Xylomenos, *Journal of Internet Services and Applications*, vol. 6, no. 11, 2015.
- [J.18] *H-Pastry: An Inter-domain Topology Aware Overlay for the Support of Name-Resolution Services in the Future Internet*, Nikos Fotiou, Konstantinos V. Katsaros, George Xylomenos and George C. Polyzos, *Computer Communications*, vol. 62, 2015, pp. 14–22.
- [J.17] *A Reliable Multicast Transport Protocol for Information-Centric Networks*, Charilaos Stais, George Xylomenos and Alexios Voulimeneas, *Journal of Network and Computer Applications*, vol. 50, 2015, pp. 92–100.

- [J.16] *A Survey of Information-Centric Networking Research*, George Xylomenos, Christopher N. Ververidis, Vasilios A. Siris, Nikos Fotiou, Christos Tsilopoulos, Xenofon Vasilakos, Konstantinos V. Katsaros and George C. Polyzos, *IEEE Communications Surveys and Tutorials*, vol. 16, no. 2, 2014, pp. 1024–1049.
- [J.15] *Handling Mobility in Future Publish-Subscribe Information-Centric Networks*, Nikos Fotiou, Konstantinos Katsaros, George C. Polyzos, Mikko Särelä, Dirk Trossen and George Xylomenos, *Telecommunication Systems*, vol. 53, no. 3, 2013, pp. 299–314.
- [J.14] *Caching and Mobility Support in a Publish-Subscribe Internet Architecture*, George Xylomenos, Xenofon Vasilakos, Christos Tsilopoulos, Vasilios Siris and George C. Polyzos, *IEEE Communications Magazine*, vol. 50, no. 7, 2012, pp. 52–58.
- [J.13] *MultiCache: An overlay architecture for information-centric networking*, Konstantinos Katsaros, George Xylomenos and George C. Polyzos, *Computer Networks*, vol. 55, no 4, 2011, pp. 936–947.
- [J.12] *Support of multiple content variants in the multimedia broadcast / multicast service*, George Xylomenos, Konstantinos Katsaros and Vasilis Tsakanikas, *International Journal of Communication Systems*, vol. 24, no 6, 2011, pp. 691–708.
- [J.11] *Link Layer Adaptation for Shared Wireless Links*, George Xylomenos and Michael Makidis, *Mobile Networks and Applications*, vol. 13, no. 3–4, 2008, pp. 259–273.
- [J.10] *The Multimedia Broadcast / Multicast Service*, George Xylomenos, Vasilis Vogkas and George Thanos, *Wireless Communications and Mobile Computing*, vol. 8, no. 2, 2008, pp. 255–265.
- [J.9] *A Multi-Service Link Layer Architecture for the Wireless Internet*, George Xylomenos and George C. Polyzos, *International Journal of Communication Systems*, vol. 17, no. 6, 2004, pp. 553–574.
- [J.8] *Quality of Service Support over Multi-Service Wireless Internet Links*, George Xylomenos and George C. Polyzos, *Computer Networks*, vol. 37, no. 5, 2001, pp. 601–615.
- [J.7] *TCP Performance Issues over Wireless Links*, George Xylomenos, George C. Polyzos, Petri Mahonen and Mika Saarinen, *IEEE Communications Magazine*, vol. 39, no. 4, 2001, pp. 52–58.
- [J.6] *Link Layer Support for Quality of Service on Wireless Internet Links*, George Xylomenos and George C. Polyzos, *IEEE Personal Communications*, vol. 6, no. 5, 1999, pp. 52–60.
- [J.5] *Internet Protocol Performance over Networks with Wireless Links*, George Xylomenos and George C. Polyzos, *IEEE Network*, vol. 13, no. 4, 1999, pp. 55–63.
- [J.4] *IP Multicast Group Management for Point-to-Point Local Distribution*, George Xylomenos and George C. Polyzos, *Computer Communications*, vol. 21, no. 18, 1998, pp. 1645–1654.
- [J.3] *The Multimedia Multicasting Problem*, Joseph C. Pasquale, George C. Polyzos and George Xylomenos, *ACM Multimedia Systems*, vol. 6, no. 1, 1998, pp. 43–59.
- [J.2] *IP Multicast for Mobile Hosts*, George Xylomenos and George C. Polyzos, *IEEE Communications Magazine*, vol. 35, no. 1, 1997, pp. 54–58.
- [J.1] *Evaluation and Selection Criteria for Software Requirements Specification Standards*, E.A. Giakoumakis and George Xylomenos, *IEEE/BCS Software Engineering Journal*, vol. 11, no. 5, 1996, pp. 307–319.

Refereed Conferences

- [C.65] *A Keyword-based ICN-IoT Platform*, Onur Ascigil, Sergi Reñé, George Xylomenos, Ioannis Psaras and George Pavlou, *Proceedings of the ACM Information-Centric Networking (ICN) Conference 2017*.
- [C.64] *Edge-ICN and its application to the Internet of Things*, Nikos Fotiou, Vasilios A. Siris, George Xylomenos, George C. Polyzos, Konstantinos V. Katsaros and George Petropoulos, *Proceedings of the IFIP Workshop on Information Centric Fog Computing (ICFC) 2017*.

- [C.63] *Securing Information-Centric Networking without negating Middleboxes*, Nikos Fotiou, George Xylomenos and George C. Polyzos, *Proceedings of the IFIP International Conference on New Technologies, Multimedia and Security (NTMS) 2016*.
- [C.62] *RT-SENMOS: Sink-Driven Congestion and Error Control for Sensor Networks*, Charilaos Stais, George Xylomenos and Evangelos Zafeiratos, *Proceedings of the IFIP International Conference on New Technologies, Multimedia and Security (NTMS) 2016*.
- [C.61] *Multi-Flow Congestion Control with Network Assistance*, Yannis Thomas, George Xylomenos, Christos Tsilopoulos and George C. Polyzos, *Proceedings of the IFIP Networking 2016 Conference*.
- [C.60] *Protecting medical data stored in public Clouds*, Nikos Fotiou and George Xylomenos, *Proceedings of the International Conference on Information and Communication Technologies for Ageing Well and E-Health (ICT4AWE) 2016*.
- [C.59] *Object-oriented Packet Caching for ICN*, Yannis Thomas, George Xylomenos, Christos Tsilopoulos and George C. Polyzos, *Proceedings of the ACM Information-Centric Networking (ICN) Conference 2015*.
- [C.58] *Evaluating the Impact of Network I/O on Ultra-Low Delay Packet Switching*, George Baltas and George Xylomenos, *Proceedings of the IEEE Symposium on Computers and Communications (ISCC) 2015*.
- [C.57] *RT-SENMOS: Reliable Transport for Sensor Networks with Mobile Sinks*, Charilaos Stais and George Xylomenos, *Proceedings of the IEEE Workshop on Distributed Mobile Systems & Services (DMSS) 2015*.
- [C.56] *Exploiting Path Diversity for Networked Music Performance in the Publish Subscribe Internet*, Yannis Thomas, George Xylomenos and George C. Polyzos, *Proceedings of the International Conference on Information, Intelligence, Systems and Applications (IISA) 2015*.
- [C.55] *The MusiNet project: Addressing the challenges in Networked Music Performance systems*, D. Akoumianakis, C. Alexandraki, V. Alexiou, C. Anagnostopoulou, A. Eleftheriadis, Y. Mastorakis, A. Modas, A. Mouchtaris, D. Pavlidi, G. C. Polyzos, P. Tsakalides, G. Xylomenos and P. Zervas, *Proceedings of the International Conference on Information, Intelligence, Systems and Applications (IISA) 2015*.
- [C.54] *IP Over ICN - The Better IP?*, Dirk Trossen, Martin J. Reed, Janne Riihijärvi, Michael Georgiades, Nikos Fotiou and George Xylomenos, *Proceedings of the European Conference on Networks and Communications (EUCNC) 2015*.
- [C.53] *On the Inter-domain Scalability of Route-by-Name Information-Centric Network Architectures*, Konstantinos V. Katsaros, Xenofon Vasilakos, Timothy Okwii, George Xylomenos, George Pavlou and George C. Polyzos, *Proceedings of the IFIP Networking 2015 Conference*.
- [C.52] *Towards improving the efficiency of ICN packet-caches*, Yannis Thomas and George Xylomenos, *Proceedings of the International Workshop on Quality, Reliability and Security in Information-Centric Networking (Q-ICN) 2014*.
- [C.51] *I-CAN: Information-Centric Future Mobile and Wireless Access Networks*, George C. Polyzos, Vasilios A. Siris, George Xylomenos, Giannis F. Marias and Stavros Toumpis, *Proceedings of the International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness (Q-SHINE) 2014*.
- [C.50] *Ultra Low Delay Switching for Networked Music Performance*, George Baltas and George Xylomenos, *Proceedings of the International Conference on Information, Intelligence, Systems and Applications (IISA) 2014*.
- [C.49] *The MusiNet project: Towards unraveling the full potential of Networked Music Performance systems*, D. Akoumianakis, C. Alexandraki, V. Alexiou, C. Anagnostopoulou, A. Eleftheriadis, V. Lalioti, A. Mouchtaris, D. Pavlidi, G. C. Polyzos, P. Tsakalides, G. Xylomenos and P. Zervas, *Proceedings of the International Conference on Information, Intelligence, Systems and Applications (IISA) 2014*.

- [C.48] *Sink Controlled Reliable Transport for Disaster Recovery*, Charilaos Stais, George Xylomenos and Giannis F. Marias, *Proceedings of the International Conference on Pervasive Technologies Related to Assistive Environments (PETRA) 2014*.
- [C.47] *Accelerating File Downloads in Publish Subscribe Internetworking with Multisource and Multipath Transfers*, Yannis Thomas, Christos Tsilopoulos, George Xylomenos and George C. Polyzos, *Proceedings of the World Telecommunications Congress (WTC) 2014*.
- [C.46] *Access control delegation for the Cloud*, Nikos Fotiou, Apostolis Machas, George C. Polyzos and George Xylomenos, *Proceedings of the IEEE CrossCloud Workshop 2014*.
- [C.45] *Reducing Forwarding State in Content-Centric Networks with Semi-Stateless Forwarding*, Christos Tsilopoulos, George Xylomenos and Yannis Thomas, *Proceedings of the IEEE INFOCOM, 2014*.
- [C.44] *Are Information-Centric Networks Video-Ready?*, Christos Tsilopoulos, George Xylomenos and George C. Polyzos, *Proceedings of the Packet Video Workshop, 2013*.
- [C.43] *Scaling Bloom filter-based multicast via filter switching*, Christos Tsilopoulos and George Xylomenos, *Proceedings of the IEEE Symposium on Computers and Communications (ISCC) 2013*.
- [C.42] *Towards an Error Control Scheme for a Publish/Subscribe Network*, Charilaos Stais, Alexios Voulimeneas and George Xylomenos, *Proceedings of the IEEE International Conference on Communications (ICC) 2013*.
- [C.41] *Networked Music Performance over Information-Centric Networks*, Charilaos Stais, Yannis Thomas, George Xylomenos and Christos Tsilopoulos, *Proceedings of the IEEE Workshop on Immersive & Interactive Multimedia Communications (IIMC) 2013*.
- [C.40] *Efficient Real-time Information Delivery in Future Internet Publish-Subscribe Networks*, Christos Tsilopoulos, Ioannis Gasparis, George Xylomenos and George C. Polyzos, *Proceedings of the International Conference on Computing, Networking and Communications (ICNC) 2013*.
- [C.39] *Cloud computing for global name-resolution in information-centric networks*, Xenofon Vasilakos, Konstantinos Katsaros and George Xylomenos, *Proceedings of the IEEE Network Cloud Computing and Applications Symposium (NCCA) 2012*.
- [C.38] *Realistic Media Streaming over BitTorrent*, Charilaos Stais and George Xylomenos, *Proceedings of the Future Network and Mobile Summit 2012 Conference*.
- [C.37] *On Inter-domain Name Resolution for Information-Centric Networks*, Konstantinos Katsaros, Nikos Fotiou, Xenofon Vasilakos, Christopher Ververidis, Christos Tsilopoulos, George Xylomenos and George C. Polyzos, *Proceedings of the IFIP Networking 2012 Conference*.
- [C.36] *GlobeTraff: a traffic workload generator for the performance evaluation of future Internet architectures*, Konstantinos Katsaros, George Xylomenos and George C. Polyzos, *Proceedings of the IFIP International Conference on New Technologies, Multimedia and Security (NTMS) 2012*.
- [C.35] *Supporting Diverse Traffic Types in Information Centric Networks*, Christos Tsilopoulos and George Xylomenos, *Proceedings of the ACM SIGCOMM Information Centric Networking (ICN) Workshop 2011*.
- [C.34] *A comparison of streaming extensions to BitTorrent*, Charilaos Stais, George Xylomenos and Angelos Archodovassilis, *Proceedings of the IEEE Symposium on Computers and Communications (ISCC) 2011*.
- [C.33] *VoPSI: Voice over a Publish-Subscribe Internetwork*, Charilaos Stais, Dimitris Diamantis, Christina Aretha and George Xylomenos, *Proceedings of the Future Network and Mobile Summit 2011 Conference*.

- [C.32] *Bootstrapping a Publish/Subscribe Information Centric Network*, Christos Tsilopoulos, Dimitris Makris and George Xylomenos, *Proceedings of the Future Network and Mobile Summit 2011 Conference*.
- [C.31] *DHTbd: A Reliable Block-based Storage System for High Performance Clusters*, George Parisis, George Xylomenos and Theodore Apostolopoulos, *Proceedings of the IEEE/ACM CCGrid 2011*.
- [C.30] *Design and Evaluation of a Socket Emulator for Publish/Subscribe Networks*, George Xylomenos and Blerim Cici, *Proceedings of the Future Internet Symposium 2010*.
- [C.29] *On the incremental deployment of overlay information centric networks*, Konstantinos Katsaros, Charilaos Stais, George Xylomenos and George C. Polyzos, *Proceedings of the Future Network and Mobile Summit 2010 Conference*.
- [C.28] *A hybrid overlay multicast and caching scheme for information-centric networking*, Konstantinos Katsaros, George Xylomenos and George C. Polyzos, *Proceedings of the Global Internet 2010 Symposium*.
- [C.27] *MultiCache: an incrementally deployable overlay architecture for information-centric networking*, Konstantinos Katsaros, George Xylomenos and George C. Polyzos, *Proceedings of the IEEE INFOCOM 2010 Work In Progress Symposium*.
- [C.26] *Monitoring and Modeling Simple Everyday Activities of the Elderly at Home*, George Papamatthaiakis, George C. Polyzos and George Xylomenos, *Proceedings of the IEEE Consumer Communications and Networking Conference (CCNC) 2010*.
- [C.25] *BLAST: Off-the-shelf hardware for building an efficient hash-based cluster storage system*, George Parissis, George Xylomenos and Dimitris Gritzalis, *Proceedings of the IFIP International Conference on Network and Parallel Computing (NPC) 2009*, pp. 148–155.
- [C.24] *A BitTorrent Module for the OMNeT++ Simulator*, Konstantinos Katsaros, Vasileios P. Kemerlis, Charilaos Stais and George Xylomenos, *Proceedings of the IEEE MASCOTS 2009*, pp. 361–370.
- [C.23] *Router assisted overlay multicast*, Konstantinos Katsaros, Nikolaos Bartsotas and George Xylomenos, *Proceedings of the Euro-NGI Conference on Next Generation Internet Networks 2009*.
- [C.22] *Overlay Multicast Assisted Mobility for Future Publish/Subscribe Networks*, Konstantinos Katsaros, Nikolaos Fotiou, George C. Polyzos and George Xylomenos, *Proceedings of the ICT Mobile Summit 2009*.
- [C.21] *Supporting Mobile Streaming Services in Future Publish/Subscribe Networks*, Konstantinos Katsaros, Nikolaos Fotiou, George C. Polyzos and George Xylomenos, *Proceedings of the Wireless Telecommunications Symposium (WTS) 2009*.
- [C.20] *RLC protocol performance over TCP SACK*, Michael Makidis and George Xylomenos, *Proceedings of the Symposium on Modeling and Optimization in mobile, ad hoc and wireless networks (WiOpt) 2008*, pp. 135–140.
- [C.19] *Adaptive Link Layer Protocols for Shared Wireless Links*, George Xylomenos and Michael Makidis, *Proceedings of the ACM International Mobile Multimedia Communications Conference (MobiMedia) 2007*.
- [C.18] *Reducing the Transmission Power Requirements of the Multimedia Broadcast/Multicast Service*, George Xylomenos, Vasilis Tsakanikas and George C. Polyzos, *Proceedings of the IST Mobile & Wireless Communications Summit 2007*.
- [C.17] *Multiple Layer Error Control over Wireless Links*, George Xylomenos and Giannis Vasalas Kokkinakis, *Proceedings of the European Wireless (EW) 2007*.
- [C.16] *Limitations of Fixed Timers for Wireless Links*, George Xylomenos, *Proceedings of the International Symposium on Parallel and Distributed Processing and Applications (ISPA) 2006*, pp. 159–170.

- [C.15] *A Multiple Content Variant Extension of the Multimedia Broadcast/Multicast Service*, George Xylomenos and Konstantinos Katsaros, *Proceedings of the IST Mobile & Wireless Communications Summit 2006*.
- [C.14] *Supporting Multiple Content Variants in the Multimedia Broadcast/Multicast Service*, George Xylomenos and Konstantinos Katsaros, *Proceedings of the World Telecommunications Congress (WTC) 2006*.
- [C.13] *A Differentiated Services QoS Scheme Preventing Malicious Flow Behavior in Mobile Ad hoc Networks*, Margaritis Margaritidis, Christopher N. Ververidis, George Xylomenos and George C. Polyzos, *Proceedings of the European Wireless (EW) 2006*.
- [C.12] *Analysis of a Multiple Content Variant Extension of the Multimedia Broadcast/Multicast Service*, George Xylomenos, Konstantinos Katsaros and George C. Polyzos, *Proceedings of the European Wireless (EW) 2006*.
- [C.11] *Adaptive Timeout Policies for Wireless Links*, George Xylomenos and Christos Tsilopoulos, *Proceedings of the IEEE International Conference on Advanced Information Networking and Applications (AINA) 2006*, vol.1, pp. 497–502.
- [C.10] *Throughput Unfairness in TCP over WiFi*, Vasileios P. Kemerlis, Eleftherios C. Stefanis, George Xylomenos and George C. Polyzos, *Proceedings of the IEEE/IFIP Conference on Wireless on Demand Network Systems and Services (WONS) 2006*.
- [C.9] *Group Management for the Multimedia Broadcast/Multicast Service*, George Xylomenos, *Proceedings of the IST Mobile & Wireless Communications Summit 2005*.
- [C.8] *Multi-Service Link Layer Enhancements for the Wireless Internet*, George Xylomenos and George C. Polyzos, *Proceedings of the IEEE Symposium on Computers and Communications (ISCC) 2003*, pp. 1147–1152.
- [C.7] *Wireless Link Layer Enhancements for TCP and UDP Applications*, George Xylomenos and George C. Polyzos, *Proceedings of the International Parallel and Distributed Processing Symposium (IPDPS), Workshop on Wireless, Mobile and Ad Hoc Networks (WMAN), 2003*, pp. 225–232.
- [C.6] *Quality of Service Issues in Multi-Service Wireless Internet Links*, George Xylomenos and George C. Polyzos, *Proceedings of the International Workshop on QoS in Multiservice IP Networks (QoS-IP) 2001*, pp. 347–365.
- [C.5] *TCP & UDP Performance over a Wireless LAN*, George Xylomenos and George C. Polyzos, *Proceedings of the IEEE INFOCOM '99*, pp. 439–446.
- [C.4] *Enhancing Wireless Internet Links for Multimedia Services*, George C. Polyzos and George Xylomenos, *Proceedings of the International Workshop on Mobile Multimedia Communications (MoMuC) '98*, pp. 379–384.
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