

Xenofon Vasilakos

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Lecturer

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Personal pages: <http://pages.cs.aueb.gr/~xvas/>

Member of IEEE Communications Society Membership, IEEE Sensors Council, and IEEE Systems Council



Summary

My name is Xenofon Vasilakos. I am a **Lecturer with the University of Bristol** (UnivBRIS), Bristol, the U.K. My research is aligned with **Bristol Digital Futures Institute (BDFI)** and the **Smart Internet Lab (SIL)**. I am currently also the lead researcher of the Zero Downtime Edge Application Mobility (ZeroDEAM) project funded by **Samsung Research UK**.

My experience includes participation in twelve research projects: x9 EU funded (including the FIA award-winning FP7-PURSUIT), one industrial project with Samsung (as a lead researcher), one Greek and one French grant-based project on topics related to 5G and Information Centric Networking (ICN) architectures. Before joining UnivBRIS, I worked as a postdoctoral fellow at Eurecom Graduate School and Research Center in Digital Sciences, in Sophia-Antipolis, the French Riviera, awarded and funded by the French government LABEX (LABoratoires d'EXcellence) Postdoc Grant.

My research interest include 5G and beyond Multi-access Edge Computing (MEC) architectures, Cloud concepts and technologies including SDN/NFV, network slicing, and pervasive networking, with particular interest on MEC solutions combined to applied Machine Learning (ML) intelligence towards ETSI-defined Zero-touch Self-Managed networking (ZSM).

I am **frequent reviewer** for prestigious journals and conferences like IEEE ToN, IEEE TMC, or IEEE IoT Journa, and a **TPC member of IEEE ICC INGI Symposium**. I also have a long teaching and student supervision experience since 2010 either as an assistant or full teaching staff member.

Work experience

University of Bristol at University of Bristol

September 2020-**now**: **Lecturer** at the Dept. of Electrical and Electronic Engineering

- Working on Architectures and AI/ML-based and SDN/NFV-enabled solutions for MEC and Cloud, IoT & IIoT, 5G & B5G/6G technologies
- Member of Bristol Digital Futures Institute (BDFI)
- Member of Smart Internet Lab (SIL), the University of Bristol
- Technical research lead of the Zero Downtime Edge Application Mobility (ZeroDEAM) project funded by Samsung Research UK (2year program, 2020-2021)
- H2020 EU funded 5GASP (36-month program)

2019-**now**
@UnivBRIS, SIL
& BDFI member

August 2020 -**now**: **Bristol Digital Futures Institute (BDFI), academic member**

- Interdisciplinary research

May 2019 – August 2020: **Research Fellow**

- Member of the Smart Internet Lab, the High Performance Networks group
- Research lead of the Zero Downtime Edge Application Mobility (ZeroDEAM) project funded by Samsung Research UK.
- Working on with Cloud/MEC, Machine Learning and IoT aspects of 5G technologies in the context of EU H2020 Projects 5GinFIRE and 5G VICTORI.

Mosaic5G team, Eurecom, Sophia-Antipolis, France

October 2017 – March 2019: **Postdoctoral Fellow**

- Member of the Mosaic 5G team for building a community-led constellation of agile 5G platforms and projects.
- Funded by the French government LABEX (LABoratoires d'EXcellence) Postdoc Grant.
- Working on 5G network technologies within the context of the EU funded H2020 projects SliceNet and 5GPICTURE.

2017-2019
@Eurecom

Mobile Multimedia Laboratory, Athens Univ. Econ. and Business, Athens, Greece

March 2016 – August 2017: **Postdoctoral Researcher**

- Funded by the EU FP7 Project H2020 iP Over IcN - the betTer IP (POINT).

2009-2017
@MMLab,
AUEB

February 2010 - February 2016: **Research Associate**

- Funded by the following projects: I-CAN; FP7-PURSUIT; FP7-PSIRP.

August 2009 - February 2010: **Junior engineer & researcher**

- Funded by the EU FP7 Project PSIRP. Implementation work for the PSI ICN architecture.

Greek Army IT Support Centre (KEPYES)

2015-2016
@KEPYES

May 2015 – February 2016: **Java/JSF Front- & Back-end developer / DB designer**

Dynamic Business Solutions A.E.

Sept. 2005 - February 2007: **Internship / junior Java developer**

- I worked as an intern and, later, as a junior java developer on various projects and tasks.

2005-2007
@DBS

Research Projects (x12)

5GASP aims at fostering rapid development and testing of new and innovative NetApps built using the 5G NFV based reference architecture. Building on top of existing physical infrastructures, 5GASP intends to focus on innovations related to the operation of experiments and tests across several domains, providing software support tools for Continuous Integration and Continuous Deployment (CI/CD) of VNFs.	2021/01-NOW H2020 5GASP https://5gasp.eu/
The Zero Downtime Edge Application Mobility (ZeroDEAM) project targets 5G services with strict performance requirements, particularly, regarding real-time communication and the problem of service “downtime” after handover events. Popular uses cases falling within the context of ZeroDEAM include eXtended Reality (XR), multi-user interactions (including gaming) and 3D holographic services. ZeroDEAM offers a distributed and low-latency access manner for running Artificial Intelligence (AI) / Machine Learning (ML) models aimed for fighting Downtime, improving resource utilisation efficiency, and increasing the overall mobile user experience.	2020/01-2021/12 Zero Downtime Edge Application Mobility (ZeroDEAM) www.bristol.ac.uk/engineering/research/smart/projects/zerodeam/
5G-VICTORI provides 5G solutions for verticals via developing 5G infrastructures for large-scale trials to address a wide range of applications with flexible architectures.	2020/1-2020/8 5G VICTORI 5g-ppp.eu/5g-victori/
5GinFIRE focuses on building and operating an Open and Extensible 5G NFV-based Reference ecosystem of experimental facilities that integrates existing FIRE facilities with new vertical-specific ones.	2019/5-2019/12 5GinFIRE, 5GinFIRE.eu/
<i>SliceNet</i> : 5G new technologies, with an emphasis on ML and MEC architectures. Research activities related to Mosaic 5G (http://mosaic-5g.io/) for flexible 5G open source platforms, particularly the LL-MEC 5G platform.	2017/10-2019/4 SliceNet
<i>5G-Picture</i> : 5G novel technologies, with an emphasis on ML solutions and the paradigm shift from "traditional" 4G RAN to the wireless network segment supported by Cloud technologies (Cloud RAN - C-RAN). Research activities related to Mosaic 5G (http://mosaic-5g.io/).	5G-Picture 5g-ppp.eu/5g-picture/
<i>LABEX Excellence grant</i> : French government LABORATOIRES d'EXCELLENCE Postdoc Grant, in support of my research on topics related to both SliceNet and 5G-Picture.	LABORATOIRES d'EXCELLENCE
The goal of the “iP Over ICN- the betTer IP” (POINT) project was to develop technology, innovations, and business value chains for commercially viable IP-over-ICN deployment, based on the hypothesis that many current IP-based applications can run “better” on an ICN-based network than on current IP networks.	2010/9-2017/3 2016/3-8/2017 EU H2020-POINT, www.point-h2020.eu/
Information-Centric future mobile and wireless Access Networks (I-CAN) focused on the massive penetration of smartphones and mobile social networks. My research contribution focused on distributed proactive caching solutions for enchanting mobility support.	2/2014-4/2015 I-CAN Research Funding Program, ARISTEIA II, mm.aueb.gr/i-can/
PURSUIT directly built on the results from the former FP7 project PSIRP. I focused on architectures for global rendezvous resolution and seamless mobility support.	9/2010-12/2012 FP7-PURSUIT, www.fp7-pursuit.eu/
The PSIRP project tried to redesign the Internet architecture from a publish-subscribe (pub/sub) point of view, following a clean-slate approach that took nothing -not even IP- for granted. My personal participation focused on network-level rendezvous resolutions.	9/2009-9/2010 FP7-PSIRP, www.psirp.org
XtreemOS: E.U. research project (IP project #IST-FP6-033576 under the FP6 program) aimed to build an operating system for Grid computing, providing for Grids what a traditional operating system offers, i.e. hardware transparency and secure resource sharing between different users. My role was on Distributed Grid Scheduling, with results published in the work of X. Vasilakos et al., "Decentralized As-Soon-As-Possible Grid Scheduling: a Feasibility Study", 19th Computer Communications and Networks (ICCCN), 2010.	2/2009-8/2009 XtreemOS, — https://research.vu.nl/en/publications/xtreemos-a-sound-foundation-for-cloud-infrastructure-and-federati ; http://www.globule.org/?page_id=90

Technical Skills

Java; C++; C; MPI; JSF; Primefaces; Android development; PURSUIT ICN Testbed; Kubernetes/Docker; OMNeT++ Network Simulator; SQL; Simulation Setup and Running; LaTeX; Technical Writing; Technical Presentations; Distributed Systems/algorithms; Parallel Programming; Linux (Ubuntu); MS Windows; NetBeans; Eclipse; Android Studio; SVN; GIT.

Academic Experience & Education

Teaching courses

▪ Digital Circuit Systems (2020/2021, 2021/2022)	University of Bristol (2020-NOW)
▪ Mobile Applications and Services (2017/2018, 2018/2019)	Eurecom (2017-19) <i>Graduate courses</i>
▪ Topics in Multimedia Systems [TA ¹] (2011/2012) ▪ Mobile and Pervasive Systems [TA] (2011/2012) ▪ Distributed Systems [TA] (2009/2010)	Athens Univ. of Econ. and Business (2010-16) <i>Graduate courses</i>
▪ Mobile and Wireless Networks [TA] (2013/2014-2014/2015) ▪ Operating Systems [TA] (2012/2013, 2013/2014) ▪ Introduction to Programming [TA] (2010/2011, 2012/2013) ▪ Programming with the Java programming language [TA] (2009/2010, 2011/2012) ▪ Distributed Systems [TA] (2009/2010-2010/2011)	<i>Undergraduate courses</i>
▪ Telematic Applications Programming (2013)	Harokopeion University of Athens (2013) <i>Graduate course</i>

Students supervision²

Since 2010, I have supervised **over 35 students**:

- ❖ Supervised or co-supervised **17 MSc student theses** from which **2 industrial projects**; and **1 BSc thesis**.
- ❖ **Tutored** 9 BSc students; 7 MSc students; and Y3 group project teams.
- ❖ I have also **worked closely with 3 PhD students**: Mr. Pratchaya Jaisudthi; and graduates Dr. Monchai Bunyakitanon and Dr. Alex Mavromatis

Conferences and Journals – Roles and activities

- ❖ Publons profile: <https://publons.com/researcher/3099344/xenofon-vasilakos/peer-review/>
- ❖ TCP member: IEEE ICC'22 - NGNI Symposium
- ❖ Session chair for "Optical Communications and Networks"; IEEE International Mediterranean Conference on Communications and Networking (MeditCom) 2021
- ❖ Reviewer for conferences or journals
IEEE ToN, IEEE TMC, IEEE IoT Journal, IEEE TVT, IEEE TNSM, IEEE TCCN, IEEE TVT, IEEE TNSM, IEEE Network Magazine, Elsevier Computer Networks, Elsevier Computer Communications, IEEE Global Internet Symposium, IFIP Networking, ACM ICN, IEEE Conference on Local Computer Networks, Elsevier Pervasive and Mobile Computing, MDPI Applied Sciences, and others.

¹ TA: Teaching assistant

² More details: <http://pages.cs.aueb.gr/~xvas/pages/ta/details.htm>

Education

University Studies

Mobility-based Proactive Caching Models for Addressing Niche Mobile Demand and Scalable ICN Name Resolution Designs

Athens University of Econ. and Business, School of Information Sciences and Technology, dept. of Informatics.

Supervised by Assoc. Prof. Vasilios Siris.

2017
Ph.D., AUEB

During my Ph.D. studies, I conducted research on clean-slate Information-Centric Networking (ICN) architectures, protocols and distributed solutions for the Future Internet, with an emphasis on (i) global Rendezvous as well as (ii) proactive caching and multicast solutions that enhance mobility support in both ICN and traditional IP-based networks.

Master of Science degree in Parallel and Distributed Computer Systems

Vrije Universiteit of Amsterdam

2009
M.Sc., VU Amsterdam

Bachelor of Science diploma in Informatics

AUEB, dept. of Informatics

2007
B.Sc., AUEB

Thesis projects

Title: *Mobility-based Proactive Caching Models for Addressing Niche Mobile Demand and Scalable ICN Name Resolution Designs*

Supervisor: Supervisor: Assoc. Prof. Vasilios Siris;
committee: Co-supervised by Assoc. Prof. George Xylomenos and
Prof. George C. Polyzos

2017
Ph.D. Thesis

Title: *DGSasap: A Decentralized Grid Scheduler for as-soon-as-possible Scheduling*

Supervisor: As. Prof. Guillaume Pierre

Publication: Decentralized As-Soon-As-Possible Grid Scheduling: a feasibility study, GridPeer2010 in association with ICCCN2010, Zurich, August 2010.

2009
M.Sc. Thesis

Title: *Named Entity Recognition in Greek Texts with an Ensemble of SVMs and Active Learning*

Supervisor: As. Prof. Ion Androutsopoulos

Publication: Named Entity Recognition in Greek Texts with an Ensemble of SVMs and Active Learning, International, Journal on Artificial Intelligence Tools, 16(6):1015-1045, World Scientific, 2007.

2007
B.Sc. Thesis

Languages

- *2000 English (Fluent)*: Full professional proficiency, Certificate of Proficiency in English, Cambridge University
- *2005 German (Knowledgeable)*: Elementary proficiency, Zertificat Deutsch, Goethe-Institut
- *Greek (Native)*
- *French (essential level)*: public school education & self-taught

Honors, awards or distinctions, other skills and miscellaneous

Personal honors and awards

▪ French government LABEX (LABoratoires d'EXcellence) Postdoc Grant	2018 - French government Laboratoires d'excellence Postdoc Grant
▪ Academic year 2004-2005, awarded based on performance	2003, 2004, 2005
▪ Academic year 2003-2004, awarded based on performance	<i>IKY³ Honoring scholarship</i>
▪ Academic year 2002-2003, awarded based on performance	
▪ Academic year 2002-2003, awarded for best student grade performance for the class of 2002	<i>2002 - IKY Accolade of performance</i>
▪ My graduation performance grade is included within the first 0.64% of performances achieved out of students admitted for the academic period 2002-2003.	2006 - IKY Academic performance at graduation

Other, team or project awards

- The PURSUIT project received the Future Internet Award for its outstanding contribution to redefining the existing Internet design in order to ensure users' stronger control over their data while enhancing broadband connections.

FIA press release: <https://ec.europa.eu/digital-single-market/en/news/award-winning-eu-project-redefines-internet-strengthening-users-online-safety-while-boosting>

Interests and hobbies

- Reading books/online or watching documentaries on various topics with a preference towards history and science
- Playing basketball or football with friends
- Professional athlete, 100m sprint, "Chalandri Athletics Club" (ΓΣΧ) (2002 - 2007)
- "FOT Chalandri" (Φ.Ο.Τ.) Basketball Club (1996 - 2002)
- "Chalandri Athletics Club" (ΓΣΧ) basketball team (1994 - 1996)

³ IKY stands for "State Scholarships Foundation" (in Greek: "Ιδρυμα Κρατικών Υποτροφιών").

Full list of publications⁴

- 33 Peer-reviewed publications:
 - 9 journals (1 magazine)
 - 24 in conference proceedings (15 main track, 8 workshops, 1 demo)
- 7 technical reports

Journal Publications (j: journals, m: magazines)

- [j1] S. Moazzeni, P. Jaisudthi, A. Bravalheri, N. Uniyal, X. Vasilakos and R. Nejabati, D. Simeonidou, "A Novel Autonomous Profiling Method for the Next Generation NFV Orchestrators," *IEEE Transactions on Network and Service Management*, vol. 18, no. 1, pp. 642-655, doi: 10.1109/TNSM.2020.3044707, Mar. 2021
- [j2] M. Bunyakitanon, A. P. Silva, X. Vasilakos, R. Nejabati, D. Simeonidou, "Auto-3P: An autonomous VNF performance prediction & placement framework based on machine learning", *Computer Networks*, Volume 181, 107433, ISSN 1389-1286, doi: 10.1016/j.comnet.2020.107433, 2020
- [j3] M. Bunyakitanon, X. Vasilakos, R. Nejabati, D. Simeonidou, "End-to-End Performance-based Autonomous VNF Placement with adopted Reinforcement Learning," *IEEE Transactions on Cognitive Communications and Networking*, Special issue on Intelligent Resource Management for 5G and Beyond, 6(2), pp. 534-547, 2020
- [j4] A. Mavromatis, C. Colman-Meixner, A. P. Silva, X. Vasilakos, R. Nejabati, D. Simeonidou, "A Software-Defined IoT Device Management Framework for Edge and Cloud Computing", *IEEE Internet of Things Journal*, pp. 1718-1735, DOI:10.1109/JIOT.2019.2949629, March, 2020
- [j5] Q. Wang et al., "Enable Advanced QoS-Aware Network Slicing in 5G Networks for Slice-Based Media Use Cases", in *IEEE Transactions on Broadcasting*, Vol. 65(2), pp. 444-453, DOI: 10.1109/TBC.2019.2901402, March, 2019
- [j6] X. Vasilakos, V. A. Siris, G.C. Polyzos, "Addressing niche demand based on joint mobility prediction and content popularity caching", *Computer Networks*, vol. 110, pp. 306-323, DOI:10.1016/j.comnet.2016.10.001, 2016
- [j7] G. Xylomenos, C. Ververidis, V. A. Siris, N. Fotiou, C. Tsilopoulos, X. Vasilakos, K. Katsaros, G. C. Polyzos, "A Survey of Information-Centric Networking Research", *IEEE Communications Surveys & Tutorials*, vol. 16(2), pp. 1024-1049, DOI:10.1109/SURV.2013.070813.00063, 2014
- [m8] G. Xylomenos, X. Vasilakos, C. Tsilopoulos, V. A. Siris, G. C. Polyzos, "Caching and Mobility Support in a Publish-Subscribe Internet Architecture", *IEEE Communications Magazine*, vol. 50, DOI:10.1109/MCOM.2012.6231279, July, 2012
- [j9] G. Lucarelli, X. Vasilakos, I. Androutsopoulos, "Named Entity Recognition in Greek Texts with an Ensemble of SVMs and Active Learning", *International Journal on Artificial Intelligence Tools*, pp 1015-1045, Vol. 16(6), DOI:10.1142/S0218213007003680, 2007

In Proceedings (p: main track; w: workshop; d: demo)

- [p1] N. Uniyal, A. Bravalheri et. al, "Intelligent Mobile Handover Prediction for Zero Downtime Edge Application Mobility", *IEEE Globecom, 2021 Global Communications Conference: Selected Areas in Communications: Machine Learning for Communications (Globecom2021 SAC MLC)*, Madrid, Spain, Dec., 2021
- [p2] X. Vasilakos, M. Bunyakitanon, R. Nejabati and D. Simeonidou, "Towards Low-latent & Load-balanced VNFPlacement with Hierarchical Reinforcement Learning", *IEEE International Mediterranean Conference on Communications and Networking*, 7–10 September, Athens, Greece, 2021
- [p3] D. Warren, X. Vasilakos, W. Featherstone, "Edge-based 5G Network Architectures in support of Zero Downtime Mobility for Enterprise Applications", in *Proceedings of Optical Fiber Transmission 2021*, June 6, virtual conference, 2021
- [p4] X. Vasilakos, W. Featherstone, N. Uniyal, et al., "Towards Zero Downtime Edge Application Mobility for Ultra-Low Latency 5G Streaming", *IEEE Cloud Summit 2020*, October 21-22, virtual conference, 2020

⁴ Most updated list of publications here: <http://pages.cs.aueb.gr/~xvas/pages/publications.htm>

- [w5] X. Vasilakos, B. Koksal, Dwi Hartati Izaldi et al., "ElasticSDK: A Monitoring Software Development Kit for enabling Data-driven Management and Control in 5G", IEEE/IFIP Network Operations and Management Symposium Miniconference, Budapest, Hungary, 20-24 April, 2020
- [w6] A. Pagès, F. Agraz, S. Spadaro et al., "A QoE-oriented Cognition-based Management System for 5G Slices: The SliceNet Approach", EuCNC 2019 European Conference on Networks and Communications, Workshop 7- Artificial Intelligence for 5G Networks, 18 Jun 2019, 2019
- [p7] L. Baldini, X. Vasilakos, C.-Y. Chang, N. Nikaiein et al., "SliceNet Control Plane for 5G Network Slicing in Evolving Future Networks", 5th IEEE Conference on Network Softwarization, NetSoft 2019, Paris, France, June 24-28, 2019
- [p8] N. Nikaiein, X. Vasilakos, A. Huang, "LL-MEC: Enabling Low Latency Edge Applications", IEEE International Conference on Cloud Networking (CloudNet'18), Tokyo, Japan, 22-24 October, 2018
- [p9] G. Xylomenos, A. Phinikarides, I. Doumanis, X. Vasilakos et al., "IPTV Over ICN", the ACM MMSys'18, Packet Video Workshop (PV'18), Amsterdam, the Netherlands, June, 2018
- [d10] N. Nikaiein et al., "Plug & Play Network Application Chaining for Multi-Service Programmability in 5G RAN", 16th ACM International Conference on Mobile Systems, Applications, and Services, MobiSys Demos, June 10-15, 2018
- [p11] G. Xylomenos, Y. Thomas, X. Vasilakos, M. Georgiades et al., "IPTV Over ICN Goes Live", EuCNC 2018: Operational & Experimental Insights (OPE), Ljubljana, Slovenia, June, 2018
- [w12] X. Vasilakos, M. Q. Al-Khalidi, V. A. Siris, M. J. Reed, N. Thomos, G. C. Polyzos, "Mobility-based Proactive Multicast for seamless mobility support in cellular network environments", the ACM SIGCOMM 2017 International Workshop on Mobile Edge Communications (MECOMM 2017), UCLA, California, USA, Aug. 21, 2017
- [p13] V. A. Siris, X. Vasilakos and D. Dimopoulos "Exploiting mobility prediction for mobility & popularity caching and DASH adaptation", IEEE WoWMoM 2016 conference, Coimbra, Portugal, 2016
- [p14] K. Katsaros, X. Vasilakos, T. Okwii, G. Xylomenos, G. Pavlou, G. C. Polyzos, "On the Inter-domain Scalability of Route-by-Name Information-Centric Network Architectures", IFIP Networking 2015, Toulouse, France, 2015
- [w15] X. Vasilakos, V. A. Siris, "Adapting Data Popularity in Mobility-Based Proactive Caching Decisions for Heterogeneous Wireless Networks", EAI Endorsed Trans. Cloud Syst., vol. 2(7), pp. e3, DOI:10.4108/icst.qshine.2014.256316, 2016
- [p16] V. A. Siris, X. Vasilakos, G. C. Polyzos, "Efficient Proactive Caching for Supporting Seamless Mobility", IEEE World of Wireless, Mobile and Multimedia Networks (WoWMoM), Sydney, Australia, June, 2014
- [p17] X. Vasilakos, K. Katsaros, G. Xylomenos, "Cloud computing for global name-resolution in information-centric networks", IEEE Network Cloud Computing and Applications Symposium '12, 2012
- [w18] X. Vasilakos, V. A. Siris, G. C. Polyzos, M. Pomonis, "Proactive Selective Neighbor Caching for Enhancing Mobility Support in Information-Centric Networks", ACM ICN'12 workshop, in conjunction with SIGCOMM, Helsinki, Finland, August, 2012
- [p19] K. Katsaros, N. Fotiou, X. Vasilakos, C. Ververidis, C. Tsilopoulos, G. Xylomenos, G. C. Polyzos, "On Inter-domain Name Resolution for Information-Centric Networks", IFIP Networking , Prague, Czech Republic, May, 2012
- [p20] X. Vasilakos, V. A. Siris, G. C. Polyzos, "Towards Exploiting User-Centric Information for Proactive Caching in Mobile Networks", 28th World Wireless Research Forum (WWRf28), Athens, Greece, April, 2012
- [w21] D. Trossen, X. Vasilakos, P. Flegkas, V. Sourlas, G. Parisi, "Mobility Work Re-Visited Not Considered Harmful ", Third IEEE International Workshop on Mobile Computing and Networking Technologies (WMCNT 2011), Budapest, Hungary, October, 2011
- [w22] V. A. Siris, X. Vasilakos, G. C. Polyzos, "A Selective Neighbor Caching Approach for Supporting Mobility in Publish/Subscribe Networks", 5th ERCIM Workshop on eMobility (in conjunction with WWIC 2011), Vilanova, Catalonia, Spain, June, 2011
- [p23] V. Giannaki, X. Vasilakos, G. Xylomenos, G. C. Polyzos, "Supporting Mobility in a Publish Subscribe Internetwork Architecture", IEEE ISCC, Corfu, Greece, 2011
- [w24] X. Vasilakos, J. Sacha, G. Pierre, "Decentralized As-Soon-As-Possible Grid Scheduling: a Feasibility Study", 19th Computer Communications and Networks (ICCCN), August, 2010

Technical Reports

- [t1] X. Vasilakos, N. Nikaïen, D. H. Lorenz, N. Ferdosian, "Integrated Methodology to Cognitive Network Slice Management in Virtualized 5G Networks", CoRR abs/2005.04830 (2020). Available here and by arXiv.org as arXiv:2005.04830v1_[cs.NI]
- [t2] B. Koksai, R. Schmidt, X. Vasilakos, N. Nikaïen, "CRAWDAD dataset eurecom/elasticmon5g2019 (v. 2019-08-29)." <https://crawdad.org/eurecom/elasticmon5G2019/20190829>, Aug. 2019
- [t3] G. Xylomenos, A. Phinikarides, I. Doumanis, X. Vasilakos, Y. Thomas, D. Trossen, M. Georgiades, S. Porter, "IPTV Over ICN", CoRR abs/1804.07509, 2018 Available via arXiv.org 1804.07509v2_[cs.NI]
- [t4] G. Xylomenos, Y. Thomas, X. Vasilakos, M. Georgiades, A. Phinikarides, I. Doumanis, S. Porter, D. Trossen, S. Robitzsch, M. J. Reed, M. F. Al-Naday, G. P. Petropoulos, K. V. Katsaros, M.-E. Xezonaki, J. Riihijärvi, "IP Over ICN Goes Live", CoRR abs/1804.07511, 2018
- [t5] V. A. Siris, X. Vasilakos, G. C. Polyzos, "Efficient Proactive Caching for Supporting Seamless Mobility", in arXiv:1404.4754[cs.NI], 2014
- [t6] V. Giannaki, X. Vasilakos, G. Xylomenos, G. C. Polyzos, "Supporting Mobility in a Publish Subscribe Internetwork Architecture", Mobile Multimedia Laboratory, Technical Report, 2011-MMLAB-TR-001, 2011
- [t7] K. Katsaros, N. Fotiou, X. Vasilakos, C. Ververidis, C. Tsilopoulos, G. Xylomenos, G. C. Polyzos, "H-Pastry: An Adaptive Multi-level Overlay Inter-Network", Mobile Multimedia Laboratory, Technical Report, 2011-MMLAB-TR-003, 2011

Ph.D. Thesis

X. Vasilakos, "Mobility-based Proactive Caching Models for Addressing Niche Mobile Demand and Scalable ICN Name Resolution Designs", A dissertation submitted in partial satisfaction of the requirements for the degree Doctor of Philosophy in Computer Science, Athens University of Economics and Business, School of Information Sciences and Technology, Department of Informatics, Mobile Multimedia Laboratory, Trias 2, GR-113 62, Athens, Greece, 2017