



# Anargyros Sideris

## Curriculum Vitae

*"Sapere Aude" - Horace*

### Education

- 2009–2015 **PhD**, *The University of Aegean*.  
2005–2007 **Master of Science**, *Brunel University*.  
1999–2004 **Bachelor of Applied Informatics&Multimedia**, *TEI of Crete*.

### PhD thesis

- Title *Dynamic Network Resource Management and Service Adaptation in Interactive Digital Broadcasting Systems for Achieving the Maximum Possible Quality of Service*
- Supervisors Prof. Skianis Charalabos, Prof. Pallis Evangelos, Prof. Demosthenes Vouyioukas
- Description In this thesis, I studied, designed, implemented and evaluated a network resource management and services adaptation mechanism that enabled the users of interactive digital broadcasting systems to receive heterogeneous multimedia services at the maximum possible QoS level.

### Master Thesis

- Title *End to End Quality of Service in an interactive digital TV environment*.
- Supervisor Dr Jonathan Loo
- Description In this thesis, I studied, integrated and evaluated Differentiated Services QoS framework in a IPv6 enabled interactive digital TV network.

### Experience

#### Research

- 2016–Present **Research Associate**, FUTURE INTELLIGENCE LTD, London, UK.  
In the framework of the European project FORTIKA (H2020-DS-02-2016-740690), I am hired as the project's technical manager. Besides that, I participate in the design, implementation and evaluation of the FORTIKA GW; the GW enables for the deployment of accelerated (FPGA compliant) cyber security services.

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- 2016–Present **Research Associate**, FUTURE INTELLIGENCE LTD, London, UK.  
 In the framework of the European project SMILE (H2020-DS-2016-2017-740931), I am hired to work in the design, implementation and evaluation of the SMILE GW; the GW aims to facilitate the secured interconnection of the front-end and back-end SMILE systems, besides enabling for the exploitation of IoT in the project's context.
- 2015–2018 **Research Associate**, TEI OF CRETE, Heraklion, Crete.  
 In the framework of the European project EMYNOS (H2020-DRS-653762), I was hired to participate in the design, implementation and evaluation of a next generation emergency communication system.
- 2015–2016 **Research Associate**, TEI OF CRETE, Heraklion, Crete.  
 In the framework of the European project T-NOVA (FP7-ICT-619520), I was hired to participate in the design, implementation and evaluation of a marketplace for Virtual Network Functions (VNFs).
- 2014–2016 **Research Associate**, FUTURE INTELLIGENCE LTD, Heraklion, Crete.  
 In the framework of the European project P-REACT (FP7-SEC-607881), I was hired to participate in the design, implementation and evaluation of a sensor data (Video and Audio) capturing, analysis and archiving platform (composed from peripheral Embedded Systems and a central Cloud system) for detecting petty crimes.
- 2010 **Research Associate**, TEI OF CRETE, Heraklion, Crete.  
 In the framework of the European project ALICANTE++ (FP7-ICT-248652), I was hired to participate in the design, implementation and evaluation of the interfaces between content aware routers and content aware network managers.
- 2008–2009 **Research Associate**, CENTRE FOR TECHNOLOGICAL RESEARCH, Heraklion, Crete.  
 In the framework of the European project VITAL++ (FP7-ICT-224287), I was hired to participate in the design, implementation and evaluation of Peer to Peer Networks over terrestrial broadcasting network environments.
- 2006–2008 **System and Network Engineer**, CENTRE FOR TECHNOLOGICAL RESEARCH, Heraklion, Crete.  
 In the framework of the European project IMOSAN (IST FP6-027457), I was hired to participate in the design, implementation and evaluation activities required for the integration of terrestrial and satellite digital interactive environments.
- 2007 **junior System Engineer**, TEI OF CRETE, Heraklion, Crete.  
 In the framework of the National project CERBERUS (ARCHIMEDES II), I was hired to integrate and evaluate security mechanisms for preventing the unauthorised use of data transmitted from broadcasting network environments.
- 2004–2006 **junior System and Network Engineer**, CENTRE FOR TECHNOLOGICAL RESEARCH, Heraklion, Crete.  
 In the framework of the European project ATHENA (IST FP6-507312), I was hired to:  
 a) develop the Cell Main Nodes of an interactive digital TV environment; b) develop a bandwidth management system; c) evaluate the network performance of an interactive digital broadcasting network.
- Teaching**
- 2004–2014 **Visiting Lecturer**, TEI of Crete.  
 During these years I taught several lessons including Programming, Data Networks, Computer networks, Operating Systems and Networks Programming. I also supervised a number of final thesis projects.

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## Awards

- 2010–2015 PhD research scholarship, HERACLEITUS II  
1999–2003 Yearly student scholarship (twice) for academic achievements

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## Computer skills

- Basic PERL, RUBY, JAVASCRIPT  
Intermediate HTML5, R, ELISP, L<sup>A</sup>T<sub>E</sub>X, Esper CEP, Eclipse, Microsoft Windows  
Advanced PYTHON, JAVA, C, GO, EMACS, GStreamer, Beego, Linux

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## MOOCs

- 2015 Communicating Strategically, edX  
2014 Explore Statistics with R, edX  
2014 The Science of Everyday Thinking, edX  
2013 Startup Engineering, Coursera  
2013 Crafting an Effective Writer: Tools of the Trade, Coursera  
2012 Machine Learning, Coursera

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## Languages

- Greek **Mothertongue**  
English **Advanced**  
German **Basic**

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## Interests

- Reading
- Singularity
- History
- Listening
- Cryptocurrency
- Travelling

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## Publications

1. Markakis, E.; Karras, K.; Zotos, N.; Sideris, A.; Moysiadis, T.; Corsaro, A.; Alexiou, G.; Skianis, C.; Mastorakis, G.; Mavromoustakis, C.; Pallis, E., “**EXEGESIS: Extreme edge resources harvesting for a virtualized Fog environment**,”. Accepted to be published in IEEE Communications Magazine, 2017
2. Arraiza, J.; Aginako, N.; Kioumourtzis, G.; Leventakis, G.; Stavropoulos, G.; Tzovaras, D.; Zotos, N.; Sideris, A.; Charalambous, E., “**Fighting volume crime: an intelligent, scalable and low cost approach**” In proceedings of the 9th Summer Safety & Reliability Seminars SSARS 2015, June 21 - 27, 2015.
3. Sideris, A.; Markakis, E.; Zotos, N.; Pallis, E.; Skianis, C., “**MPEG-DASH users’ QoE: The segment duration effect**”, Quality of Multimedia Experience (QoMEX), 2015 Seventh International Workshop on , vol., no., pp.1,6, 26-29 May 2015

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4. Sideris, A.; Markakis, E.; Trigonis, A.; Alexiou, G.; Pallis, E.; Skianis, C., **“MPEG-DASH over IDVB-T: The QoE unfairness issue”**, Computer Aided Modeling and Design of Communication Links and Networks (CAMAD), 2014 IEEE 19th International Workshop on ,vol., no., pp.70,74, 1-3 Dec. 2014
5. Markakis, E., Skianis, C., Sideris, A., Alexiou G., & Pallis, E. **“A Broadcast Aware P2P mechanism for improving BitTorrent Content Delivery”**. in IEEE International Workshop on Computer-Aided Modelling Analysis and Design of Communication Links and Networks (CAMAD), Athens, Greece, 1-3 December, 2014. IEEE.
6. Markakis, E., Skianis, C., Sideris, A., & Pallis, E. (2014, July) **“Improving BitTorrent Content Delivery over Broadcast Networks”**. In Telecommunications and Multimedia (TEMU), 2014 International Conference on (TEMU2014), Heraklion, Crete, Greece, 28 -30 July, 2014. IEEE.
7. Sideris, A.; Markakis, E.; Trigonis, A.; Alexiou, G.; Pallis, E.; Skianis, C., **“QoE fairness, HTTP Adaptive Streaming and IDVB-T: The AWM approach”**, Telecommunications and Multimedia (TEMU), 2014 International Conference on , vol., no., pp.29,33, 28-30 July 2014
8. Sideris, A; Pallis, E; Skianis, C; Zacharopoulos, V; **“Distributed NQoS provision in Interactive DVB-T systems”**, IEEE International Conference on Communications (ICC), IEEE 2012 , pp. 1906-1910
9. Anapliotis, Petros; Markakis, Evangelos; Sideris, Anargyros; Pallis, Evangelos; Negru, Daniel; **“A novel content-aware multipath routing concept exploiting random utility theory principles”**, International Conference on Telecommunications and Multimedia (TEMU), IEEE 2012, pp. 49-53
10. ideris, A; Markakis, E; Anapliotis, P; Pallis, E; Skianis, C; **“Content adaptation of IPTV services in Interactive DVB-T systems”**, 2012 International Conference on Telecommunications and Multimedia (TEMU), IEEE 2012, pp.107-111
11. Markakis, Evangelos; Sideris, Anargyros; Anapliotis, Petros; Alexiou, Georgios; Skianis, Charalabos; Pallis, Evangelos; **“IMS-enabled interactive broadcasting network utilizing peer to peer constellations”**, International Conference on Telecommunications and Multimedia (TEMU), IEEE 2012, pp. 130-134
12. E. Markakis, A. Sideris, E. Pallis, V. Zacharopoulos, **“Differentiated services provision in a converged DVB/IP networking environment”**, IEEE/ACS International Conference on Computer Systems and Applications (AICCSA 2008), Doha Qatar, March-April 2008, ISBN: 978-1-4244-1967-8.
13. C. Manifavas, A. Sideris, P. Fragopoulou, V. Zacharopoulos **“Integrating Network Security Mechanisms into a DVB-T Network”**, in Proc, 7th WSEAS International Conference on Applied Computer Science(ACS07), Venice, Italy, November 21-23, 2007.

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14. G. Mastorakis, E. Markakis, A. Sideris, E. Pallis, V. Zacharopoulos, **“Experimental infrastructures for IP/DVB convergence: an actual substantiation for triple play services provision at remote areas”**, in Proc. 18th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC07), Special Session on Advanced Experimental Infrastructures and Paradigms for NGNs, Athens, Greece, 03-07 September, 2007.

15. G. Mastorakis, V. Zacharopoulos, A. Sideris, E. Markakis, A. Fatsea, **“Digital Switchover in UHF: Supporting tele-learning applications over the ATHENA platform”**, in Proc. 5th International Network Conference (INC2005), Samos, Greece, 05-07 July, 2005, pp. 459-466.

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