



# Curriculum Vitae

## Personal information

|                            |  |
|----------------------------|--|
| Surname(s) / First name(s) | Malamos, Athanasios  |
| Address(es)                | Home:<br>Str. Katechaki, POBox 30, Kalessa, Gazi,<br>Heraklion, Crete, Greece, PC 71500<br>Business:<br>Dept. of Electrical and Computer Engineering, Hellenic Mediterranean University, POBox<br>1939, Estavromenos, Heraklion, Crete, Greece, PC 71004 |
| Telephone(s)               | +30 2810 379884             Mobile:             +30 6972813844   |
| E-mail                     | <a href="mailto:amalamos@hmu.gr">amalamos@hmu.gr</a>   |
| Personal page              | <a href="http://www.medialab.hmu.gr/head.html">http://www.medialab.hmu.gr/head.html</a>  |
| DBLP page                  | <a href="http://dblp.uni-trier.de/pers/hd/m/Malamos:Athanasios_G=">http://dblp.uni-trier.de/pers/hd/m/Malamos:Athanasios_G=</a>  |
| Laboratory site            | <a href="http://www.medialab.hmu.gr">http://www.medialab.hmu.gr</a>  |
| Nationality                | Greek  |

Gender Male

Marital status Married with three (3) kids

## Work experience

Positions

((September 2018-present) Head of Department Electrical and Computer Engineering, Hellenic Mediterranean University

(November 2017-Sept 2018) Deputy Head of Department of Social Working

(September 2017-present) Director of Studies in the “Multimedia and Informatics” MSc Program

(March 2017 – present) Deputy Director of Centre of Technological Research of Crete ([https://en.wikipedia.org/wiki/Centre\\_for\\_Technological\\_Research\\_of\\_Crete](https://en.wikipedia.org/wiki/Centre_for_Technological_Research_of_Crete))

(January 2004-present) Head of the Multimedia Group of TEI Crete ([www.medialab.hmu.gr](http://www.medialab.hmu.gr))

(March 2016-present) Head of the Multimedia, Networks and Communications Laboratory of TEI Crete ([www.mnclab.hmu.gr](http://www.mnclab.hmu.gr))

(October 2018-present) Professor in the Hellenic Mediterranean University

(January 2007 –October 2018 ) Associate Professor in the Technological Educational Institute of Crete, Dept. Informatics Engineering, formerly "Dept. Applied Informatics & Multimedia"

(Sept 2010 – Jan 2012) Head of Department Applied Informatics & Multimedia

(June 2002-January 2007) Assistant Professor in the Technological Educational Institute of Crete, Dept. Applied Informatics & Multimedia

(January 2000 - June 2002) Part time Researcher in the Telecom Lab of National Technical University of Athens and ICCS ([http://www.iccs.gr/en/?noredirect=en\\_US](http://www.iccs.gr/en/?noredirect=en_US))

(January 2000 - June 2002) R&D project engineer in private firms such as Business Exchange SA (GR-ecommerce), K-NET SA(GR-stock market), Steficon SA (GR-web & marketing), Icon CG ltd (UK-computer graphics)

(August 1998 - January 2000) Research Assistant in the Research and Informatics corps of the Hellenic Army

(Sept 1993- July 1998) Research assistant (with contract) and post graduate student (scholarship) in the Electronics Lab of Technical University of Crete

## Education and training

Title of qualification awarded BSc, MSc, PHD

B.Sc. degree from the Physics Department, University of Crete in 1992,

M.Sc. degree from the School of Electronic and Computer Engineering, Technical University of Crete, in 1995, Thesis Subject "A Microcontroller – Based System for Monitoring and Controlling the Operation of an Uninterruptible Power Supply"

Ph.D degree from the School of Electronic and Computer Engineering, Technical University of Crete, in 2000. Thesis Subject "Quality of Service (QoS) control in multimedia applications"

## Personal skills and competences

Mother language(s)

Greek

Other language(s)

English C2, French B1

Research Interests

- WEB Multimedia & Graphics
- Artificial Intelligence in Multimedia applications (Classification, indexing)
- Applications of multimedia like in E-learning, archaeology, etc

Current research activity is in the area of 3D sound and audio and 6 Degree Of Freedom 360 video.

Administrative positions

(September 2018-present) Head of Department Electrical and Computer Engineering, Hellenic Mediterranean University

(November 2017-present) Deputy Head of Department of Social Working

(September 2017-present) Director of Studies in the "Multimedia and Informatics" MSc Program

(March 2017 – present) Vice Director of Centre of Technological Research of Crete ([https://en.wikipedia.org/wiki/Centre\\_for\\_Technological\\_Research\\_of\\_Crete](https://en.wikipedia.org/wiki/Centre_for_Technological_Research_of_Crete))

(2015-present) TEI Crete: Head of the Multimedia Networks and Communications Lab

(2004-2015) Head of Multimedia Content laboratory ([www.medialab.teicrete.gr](http://www.medialab.teicrete.gr)) having managed a total budget of around 1.3 million euros.

(Sept. 2010 – Dec. 2012) TEI Crete: Head of department (Applied Informatics and Multimedia dept)

- During my leadership the department succeed to pass the external evaluation of the HELLENIC QUALITY ASSURANCE AGENCY FOR HIGHER EDUCATION ([link](#)).
- Moreover, the Hellenic Ministry of Education accredited our Masters Degree program in Informatics and Multimedia ([link](#)).

## Educational activities & achievements

(2010-2013) TEI Crete: Head of the Quality Control Committee for Student Welfare.

(2010-present) TEI Crete: Member of the Committee for Student Welfare (appointed by the Institution and accredited by the Ministry)

### **PHD Thesis (as adjunct professor in University of South Wales UK)**

George (Yorgos) Mamakis, “Semantic based content search and content summarization” (awarded 2013) South Wales University UK ([link](#))

Eftichia Lakka, “Immersive sound specification in virtual reality environments” (in progress) South Wales University UK

### **MSc Thesis ([link](#))**

Andreas Stamoulias, “Physics support in Web3D environments” (awarded 2014) TEI CRETE

Kostas Kapetanakis, “Web3D real-time adaptation framework based on MPEG-DASH” (awarded 2014) TEI CRETE

Dionisis Kladis, “Integrating MPEG-4 media in the context of HTML5 technologies” (awarded 2014) TEI CRETE

Zacharo-Evangelia Andrioti, “Web 3D gaming over HTML5 and web-based communication” (awarded 2015) TEI CRETE

Konstantinos Kontakis, “Semantic description of scenes in virtual reality environments” (awarded 2015) TEI CRETE

Malvina Steiakaki, “Semantic Web Interior Decoration with queries and 3D representation over WebRTC and X3DOM” (awarded 2016) TEI CRETE

### **BSc Thesis**

More than 150 under graduate thesis since 2006 ([link](#))

### **Courses**

MSc course Algorithms (in English) ([link\\*](#)) (2010-2012)

MSc course Advanced Multimedia (in English) ([link\\*](#)) (2012- present)

Multimedia Applications (in Greek) ([link\\*](#)) (2003-present)

Internet Programming (in Greek) ([link\\*](#)) (2013- present)

Graphics (in Greek) (2013-present)

Web Multimedia and Graphics (2014- present)

Computer Games (in Greek) ([link\\*](#)) (2006-2012)

\*links point to sample videos of the course, there are full courses videos available as well ([link](#))

Scientific contributions and achievements

### **Multimedia and 3D technology in the WEB**

- Efficient annotation of X3D models with MPEG7 protocol
- Implementation of Physics inside the X3DOM platform, extension of X3DOM API
- Implementation of Spatial Sound inside X3DOM platform
- Extending X3DOM video textures and including of MPEG-DASH video
- MPEG DASH streaming of WEB3D models and progressive presentation of big 3D models via the web
- Implementation of Humanoids inside X3DOM platform in the presence of physics

### **Artificial Intelligent and Media**

- A Multilanguage Summarization System
- A news articles classification system
- Music transcription and note tone detection from mp3 files and live recording

### **Applications & Products**

- 360 video with dynamic hot-spots in the web([link](#))
- DECO Real-Time Collaborative environment for interior design-2015.([link](#))
- Real Time automatic music transcription (AMT) over the web – 2016. The algorithm is implemented under <https://www.toneroll.com/>
- Two educational Augmented Reality movies for the Archaeological Museum of Heraklion – 2015 ([link1](#))([link2](#))
- E-cult platform in tablets and touch screens. – 2015.([link](#))
- OPENCOURSES – 2015. Organizing and managing elearning and real-time video-audio streaming infrastructure in Technological Educational Institute of Crete ([eclass.teicrete.gr](http://eclass.teicrete.gr), [opendelos.teicrete.gr](http://opendelos.teicrete.gr))
- “MATE” – 2014. A virtual reality Movie for The Minoan Palace of Knossos ([link](#))
- Evie-M Educational Virtual Environment for mathematics – 2007. The platform is available in [link](#)
- Network simulation (software for networks)-2002. With Conceptum SA, An interactive multimedia (2D) application for the presentation of several computer network theory issues. This software is distributed through the official page of the Hellenic Ministry of Education ([link](#))
- CD-ROM app Mythochora (fairy-land)-2004. The Mythochora project was developed in collaboration with Mentoring S.A., for the Center of Intercultural and Migration Studies (E.DIA.M.ME) of the Department of Primary Education, University of Crete. This project consists of a multimedia game application developed in Adobe Director and Shockwave 3D environment. The goal of this application is to provide, through game, supplementary information on Greek mythology from the E.DIA.M.ME course book, which is distributed for free at the Hellenic emigrant schools. Right now is distributed all over the world.([link](#))

Funded Research and R&D Projects Coordination

Total budget of R&D funding of my group, since 2004 is 1.3 million euros

“Holistic smart water management”, in cooperation to the industry funded by General Secretariat of Research (Industrial Research Framework) and the European Union 2015

“Experiential Educational Environment ”, in cooperation with the Archeological Museum of Heraklion Crete funded by the Hellenic Ministry of Education and Research and the European Union, 2014-2015

“i-promotion”, in cooperation with the industry and NTUA funded by Hellenic General Secretariat of Research and the European Union, 2011-2014

Opencourses in TEI Crete, Funded by the Hellenic Ministry of Education and Research and the European Union 2013-2015

“DECO-DECoration Ontology”, Hellenic Ministry of Education and Research and the European Union, Research Framework, Archimedes 2012-2015

“ARTEMIS, Forest Fire Risk Management”, European Commission, Directorate General, Civil Protection Financial Instrument 2008-2009

“Collection, Digitization and Documentation of Cultural Heritage material of Lassithi region” Hellenic Infosociety 2006-2008

“PALI, Personalized Adaptive Learning Interfaces”, funded by the Hellenic Ministry of Education and the European Union, Research Framework, Archimedes 2005-2007

“Educating high school teachers in Computer and Communication Technologies” funded by the Hellenic Infosociety. 2005

“E-learning in TEI Crete» funded by The Region of Crete, 3rd EU Framework of Support, 2004

International Organizations  
Participation

Member of WEB3D consortium

Member of ACM SIGGRAPH

Scientific Committees and Boards

Web3D 2019, Workshop on Semantic 3D Content, Workshop co-chair, Don Brutzman, Jakub Flotyński, Athanasios Malamos, Jamie Wittenberg (IU)

Guest Special Issue Editor in Graphical Models Journal Elsevier (2016)

Guest Issue Editor in Journal of Virtual World Research (Volume 9, Number 2 (2016))

General Chair in ACM Web3D 2015

Regular reviewer (more than 4 reviews per year) in Multimedia Tools and Applications, Springer Journal

Regular reviewer in Journal of Information Technology in Construction

Regular reviewer in Virtual Reality Springer journal

Reviewer in Graphical Models Journal Elsevier (2016)

Reviewer in Journal of Virtual World Research

Reviewer in IEEE Transactions on Services Computing

Member of the Program Committee in NHIBE 2003 – 2015 conferences

Member of Organizing Committee 11th International Conference on Intelligent Tutoring Systems (ITS) 2012

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|-------------------------------|---|
|                               | <p>Member of the Program Committee in IEEE TEMU 2010, 2012, 2014 conferences</p> <p>Member of the Program Committee in European Association for Education in Electrical and Information Engineering Annual Conference, 2013, 2014</p> <p>Member of the Program Committee in ACM PCI 2007, 2014, 2015, 2016, 2017 conference</p> <p>Member of the Program Committee in the International Symposium on Ambient Intelligence and Embedded Systems, 2015</p> <p>Member of the Program Committee in The Eighth International Conference on Emerging Networks and Systems Intelligence, 2016</p>  |
| Honorable Missions and Awards | <p>ACM: Recognition of Service Award</p> <p>WEB 3D CONSORTIUM: Recognition of Service Award</p> <p>Member of the Ethics Committee of the TEI Crete</p> <p>Interview in the local TV channel “Kydon” about Multimedia &amp; Virtual Reality</p> <p>Interview in one of the highest impact Greek newspaper “Kathimerini” about media in tourism and culture. (<a href="http://www.kathimerini.gr/919763/gallery/ta3idia/proswpa-toy-toyrismoy/a8anasios-g-malamos-anaplhwrths-ka8hghths-toy-tmhmato-mhxanikwn-plhroforikh-tei-krhths">http://www.kathimerini.gr/919763/gallery/ta3idia/proswpa-toy-toyrismoy/a8anasios-g-malamos-anaplhwrths-ka8hghths-toy-tmhmato-mhxanikwn-plhroforikh-tei-krhths</a>)</p> <p>Interview in the Greek National Television channel ERT3 in the O3 program about project ERASMUS+ STEPS. (<a href="https://drive.google.com/file/d/1UFewmvtLp8ny-C1yW84co2QIDx7g_RU-/view?usp=sharing">https://drive.google.com/file/d/1UFewmvtLp8ny-C1yW84co2QIDx7g_RU-/view?usp=sharing</a>)</p> |
| Invited talks                 | <p>'Opencourses.gr' A massive effort of the Greek Academia to “open” their curriculum and lectures to public through the web. The implementation in TEI Crete. The architecture, the results and lessons learned. 17/2/2016, ETSI Montes, Technical University of Madrid</p> <p>During ACM WEB3D 2020 conference , Seoul, South Korea, Tutorial #5, X3D4 Spatial Sound, Web Audio API and Acoustic Properties, Sound and acoustics fundamentals.</p>  |
| References                    | <p>Don Brutzman (<a href="mailto:brutzman@nps.edu">brutzman@nps.edu</a>). Naval Postgraduate School, USA</p> <p>Nicholas Polys (<a href="mailto:npolys@vt.edu">npolys@vt.edu</a>) Virginia Tech. USA</p> <p>Andrew Ware (<a href="mailto:andrew.ware@southwales.ac.uk">andrew.ware@southwales.ac.uk</a>) University of South wales, UK</p>  |

## Publications

### Book chapters & Books

- B10. FG Hamza-Lup, NF Polys, AG Malamos, NW John. Medical 3D Graphics With eXtensible 3D in Book Recent Advances in 3D Imaging, Modeling, and Reconstruction, IGI Global Publications pp270-288, IGI Global Publications, 2020
- B9. J Flotyński, AG Malamos, D Brutzman, FG Hamza-Lup, NF Polys, LF Sikos, Recent Advances in Web3D Semantic Modeling in Book Recent Advances in 3D Imaging, Modeling, and Reconstruction, pp23-49, IGI Global Publications, 2020
- B8. S Panagiotakis, Y Fandaoutsakis, M Vourkas, K Vassilakis, A Malamos, Energy-Efficient Design of Data Center Spaces in the Era of IoT in the Book Exploiting the Concept of Digital Twins Convergence of Artificial Intelligence and the Internet of Things, pp117-143, Springer, 2020
- B7. Papadokostaki, K., Panagiotakis, S., Malamos, A., & Vassilakis, K. (2019). Mobile Learning in the Era of IoT: Is Ubiquitous Learning the Future of Learning? In St. Papadakis and M. Kalogiannakis (Eds), Mobile Learning Applications in Early Childhood Education, (pp. 252-280), Hershey, PA: IGI Global. 2020
- B6. K Tsampi, S Panagiotakis, E Hatzakis, E Lakiotakis...AG Malamos, "Extending the Sana Mobile Healthcare Platform with Features Providing ECG Analysis" Mobile Big Data, pp 289-321, Springer, 2018 DOI 10.1007/978-3-319-67925-9\_12
- B5. Konstantinos Kontakis, Malvina Steiakaki, Michael Kalochristianakis, Kostas Kapetanakis, Athanasios G. Malamos, "Applying Aesthetic Rules in Virtual Environments by Means of Semantic Web Technologies." In Lecture Notes Computer Science, Augmented and Virtual Reality, editors: Lucio Tommaso De Paolis, Antonio Mongelli, pp344-354, 2015, Springer
- B4. S. Panagiotakis, J. Vakintis, H. Andrioti, A. Stamoulias, K. Kapetanakis, A.Malamos, "Towards ubiquitous and adaptive web-based multimedia communications via the cloud", In: Resource Management of Mobile Cloud Computing Networks and Environments, George Mastorakis, Constandinos Mavromoustakis, Evangelos Pallis (eds.), 2015, IGI Global.
- B3. Kostas Kapetanakis, Markos Zampoglou, Spyros Panagiotakis, Athanasios Malamos et al, "iPromotion: A Cloud-Based Platform for Virtual Reality Internet Advertising", Nik Bessis and Ciprian Dobre (Eds): BIG DATA AND INTERNET OF THINGS: A ROADMAP FOR SMART ENVIRONMENTS, Studies Comp.Intelligence, Vol. 546, 2014
- B2. S. Karayiannis, G. Exarhos, D. Karagiannakis, A. Apostolou, N. Papadogiannakis, AG Malamos "Crete: the safest tourist resort and attraction in South Europe. Two field researches." 2004, ISBN 960-630-346-2
- B1. G. A. Rovithakis, A.G. Malamos, T.A. Varvarigou, M. Christodoulou "Quality of Service adaptive control in multimedia telecommunication services." In book "Quality and Reliability of Large Scale Telecommunication Systems (Case Study Olympic Games)", Wiley Publishers, ISBN: 0-470-84770-0, Feb. 2002, USA

#### Journals

#### Editorials

- JE1. Suely Fragoso, Maria del Carmen Gil Ortega, Athanasios G. Malamos "Editorial", Journal of Virtual World Research, Volume 9, Number 2, Assembled 2016 (2), September, 2016
- JE2. Felix Hamza-Lup, Jinyuan Jia, Athanasios Malamos, Tobias Schreck "Preface of the special issue advances in Web3D", Graphical Models, p22, Volume 88, November 2016,



JE3. J.A. Ware and A.G. Malamos, Special Issue "Artificial Intelligence Supported Design and Innovation" A special issue of Designs (ISSN 2411-9660), 2019

### Research

J22. E. Lakka , A. G. Malamos , K. G. Pavlakis and J. A. Ware, "Designing a Virtual Reality platform to stage augmented theatrical experiences based on auralization", *Designs* 2019,3, 33; doi:10.3390/designs3030033

J21. S. Panagiotakis, K Papadokostaki, K. Vassilakis and A. G. Malamos, "Towards a novel and LMS-free Pervasive Learning System exploiting the Experience API", *Transactions on Creative Technologies, EAI*, 2018, DOI: 10.4108/eai.13-7-2018.156383

J20. K. Kontakis, A. G. Malamos, M. Steiakaki, S. Panagiotakis and J. A. Ware, "Object Identification Based on the Automated Extraction of Spatial Semantics from Web3D Scenes," *Annals of Emerging Technologies in Computing (AETiC)* Vol. 2, No. 4, 2018, DOI: 10.33166/AETiC.2018.04.001 .

J19. E. Lakka, A. G. Malamos, K. G. Pavlakis and J. A. Ware, "Spatial Sound Rendering – A Survey", accepted in *International Journal of Artificial Intelligence and Interactive Multimedia*, vol.5 no.3 pp. 33-45, 2018, DOI: 10.9781/ijimai.2018.06.001

J18. Atsali, G., Panagiotakis, S., Markakis, E., Mastorakis, G., Mavromoustakis, C.X., Pallis, E., Malamos, Athanasios, "A mixed reality 3D system for the integration of X3DoM graphics with real-time IoT data", *Multimed Tools Appl* (2017). <https://doi.org/10.1007/s11042-017-4988-z>

J17. Nikos Pinikas, Spyros Panagiotakis, Despina Athanasaki, Athanasios G. Malamos, A Device Independent Platform for Synchronous Internet of Things Collaboration and Mobile Devices Screen Casting, *International Journal of Information and Communication Sciences*. Vol. 2, No. 5, 2017, pp. 59-67. doi: 10.11648/j.ijics.20170205.12

J16. Konstantinos Kontakis, Athanasios G. Malamos, Malvina Steiakaki and Spyros Panagiotakis, "Spatial Indexing of Complex Virtual Reality Scenes in the Web", *International Journal of Image and Graphics* Vol. 17, No. 2 (2017) 00523 (18 pages), DOI: 10.1142/S0219467817005235

J15. Markos Zampoglou, Kostas Kapetanakis, Andreas Stamoulias, Athanasios G. Malamos, Spyros Panagiotakis, "Adaptive streaming of complex Web 3D scenes based on the MPEG-DASH standard", *Multimedia Tools and Applications* (2016). doi:10.1007/s11042-016-4255-8

J14. Andreas Stamoulias, Eftychia Lakka, Athanasios G. Malamos, "Wrapping" X3DOM around Web Audio API". *International Journal of Artificial Intelligence and Interactive Multimedia* 3(5): 36-46 (2015)

J13. Kostas Kapetanakis, Markos Zampoglou , Spyros Panagiotakis, Athanasios Malamos, Emmanuel Maravelakis, "An MPEG-DASH Methodology for QoE-aware Web3D Streaming", *International Journal of Wireless Networks and Broadband Technologies (IJWNBT)* , 3 (4)

J12. Kalochristianakis M, Zampoglou M, Kontakis K, Kapetanakis K, Malamos A. "Scene Integration for Online VR Advertising Clouds." *International Journal of Artificial Intelligence and Interactive Multimedia*. 2014;3(Regular Issue):14-9.

J11. Markos Zampoglou, Athanasios G. Malamos, "Music Information Retrieval in Compressed Audio Files: a Survey", *New Review of Hypermedia and Multimedia*, pp. 189-206, Volume 20, Issue 3, 2014

J10. Panagiotakis Spyros, Vakintis Ioannis, Kapetanakis Kostas, Malamos Athanasios, Browser Platform Assessment for X3Dom Graphics' Rendering Capabilities, *International Journal of Computer and Information Technology*, Volume 03, 05, September 2014.

J9. Panagiotakis, K. Kapetanakis, A. G. Malamos, "Architecture for Real Time Communications over the Web," *International Journal of Web Engineering*, 2(1): 1-8, doi:10.5923/j.web.20130201.01, 2013.

- J8. P. Spala, A. G. Malamos, A. D. Doulamis, and G. Mamakis, "Extending MPEG-7 for efficient annotation of complex web 3D scenes," *Multimedia Tools Appl*, vol. 59, no. 2, pp. 463–504, 2012.
- J7. Georgios Mamakis, Athanasios G. Malamos, J. Andrew Ware, Ioanna Karelli, "Document Classification in Summarization, " *Journal of Information and Computing Science* Vol. 7, No. 1, 2012, pp. 025-036.
- J6. G. Mamakis, A. Malamos, J. A. Ware, "An Alternative Approach for Statistical Single-label Document Classification of Newspaper Articles", *Journal of Information Science*, Sage Publications June, 2011 vol. 37 no. 3 293-303
- J5. A.G. Malamos, T.A. Varvarigou, «An Algorithm for Scheduling Jobs with Critical and non-Critical Tasks in Shops with No-Wait, Multipurpose Machines and Deadlines, », *International Journal of Mathematics, Game Theory, and Algebra*, Nova Publishers, 2007
- J4. G. A. Rovithakis, A.G. Malamos, T.A. Varvarigou and M.A. Christodoulou, « Quality of Service Adaptive Control of Multimedia Services in Short-Term Resource Reservation Networks,» *Cybernetics and Systems Journal*, Volume 36, Number 3, pp. 251-281, April-May 2005
- J3. A.G. Malamos, E.N. Malamos, T.A. Varvarigou and S.R. Ahuja «A Model For Availability Of Quality Of Service (QoS) In Distributed Multimedia Systems, » *Multimedia Tools and Applications Journal*, 16(3), pp 207-230, Mar 2002.
- J2. A.G. Malamos, T.A. Varvarigou, E.N. Malamos and C.H Yeh «MEQA3- A Multi-End QoS Application Adaptation Architecture, » *International Journal for Computer Research*, Special Issue in "Information Processing and Technology", Nova Publishers, 2001
- J1. E.N. Malamos A.G. Malamos, and T.A. Varvarigou, «Fast Implementation Of Binary Morphological Operations On Hardware-Efficient Systolic Architectures,» *Journal of VLSI Signal Processing*, 25(1), pp. 79-93, May 2000.

Conferences (selected only with full paper review)

- C. 44 Konstantinos Oikonomou, Kelly Gerostergiou, Dimitris Liovas, Costas Stathopoulos, Elias Liakos, Dimitris Kolokotronis, Athanasios G. Malamos, Evgenia Lisitsa, Georgios Trantas, and Kyriakos Papadakis. "Virtual Reality in Humanistic Prisons Education. The STEPS project". In 24th PanHellenic Conference on Informatics (PCI 2020), November 20–22, 2020, Athens, Greece. ACM, New York, NY, USA, 6 pages. <https://doi.org/10.1145/3437120.3437318>
- C.43 E Lakka, D Brutzman, R Puk, AG Malamos Extending X3D Realism with Audio Graphs, Acoustic Properties and 3D Spatial Sound The 25<sup>th</sup> ACM International Conference on 3D Web Technology, 1-9
- C42. Christophe Mouton, Don Brutzman, John Carlson, Jakub Flotyński, Felix Hamza-Lup, Athanasios Malamos, Marc Petit, Nicholas Polys, Leslie Sikos, and Krzysztof Walczak, "The Semantic Web3D: towards comprehensive representation of 3D content on the Semantic Web" *SemWeb.pro*, 2019
- C41. Jakub Flotyński, Don Brutzman, Felix G. Hamza-Lup, Athanasios Malamos, Nicholas Polys, Leslie F. Sikos, Krzysztof Walczak "The Semantic Web3D: Towards Comprehensive Representation of 3D Content on the Semantic Web", *International Conference on 3D Immersion (IC3D)*, Brussels, Belgium, 2019
- C40. D. I. Kosmopoulos, M. Kalohristianakis, A. Malamos, Sotirios Chatzis, M. Pternea, K. Kepaptsoglou, M. Karlaftis, "Developing Public Transport Network systems: The DIANA approach", October 2014 PCI '14: Proceedings of the 18th Panhellenic Conference on Informatics

- C39. Fragkopoulos, Markos, Malamos, Athanasios, Panagiotakis Spyros, "Note Recognizer: Web application for detecting and processing musical characteristics from audio files or microphone in real-time." DLI 2017, Heraklion Crete
- C38. Papadokostaki, Koralia; Panagiotakis, Spyros; Vassilakis, Kostas; Malamos, Athanasios "Implementing an Adaptive Learning System with the Use of Experience API", DLI 2017, Heraklion Crete
- C37. Eirini Charalampaki, Athanasios G. Malamos: "Tracking football players with a conventional mobile device camera.", PCI 2017: 59 (2017) doi>10.1145/3139367.3139411
- C36. Harris Papadakis, Nikos Michalakis, Paraskevi Fragopoulou, Costas Panagiotakis, Athanasios Malamos "Movie SCoRe: Personalized Movie Recommendation on Mobile Devices", PCI 2017:46 doi>10.1145/3139367.3139383
- C35. Steiakaki, M., Kontakis, K., Malamos, A. G. "Real-Time collaborative environment for interior design based on Semantics, Web3D and WebRTC". In Proceedings of the 15th International Symposium on Ambient Intelligence and Embedded Systems (AmiEs), 2016
- C34. Georgia Atsali, Dimitris Katrinakis, Spyros Panagiotakis, Athanasaki Despina, Michael Kalochristianakis, Thrasyvoulos Manios, Athanasios Malamos "First Flush Rainwater Harvesting Application with Fuzzy Logic Control" In Proceedings of the 15th International Symposium on Ambient Intelligence and Embedded Systems (AmiEs), 2016
- C33. Michael Kalochristianakis, Athanasios G. Malamos, Kostas Vassilakis "Color based subject identification for virtual museums, the case of fish". IEEE TEMU 2016
- C32. Michael Kalochristianakis, Helen Vonorta, Andreas Stamoulias, Eftixia Lakka, Kostas Kontakis, Athanasios G. Malamos, "Experiential educational environments for cultural heritage. IEEE TEMU 2016
- C31. Michael Kalochristianakis, Dimitris Katrinakis, Georgia Atsali, Athanasios G. Malamos, Thrasyvoulos Manios, Spyros Panagiotakis, "HOLISTIC: An IoT system for residential water recycling based on open source technologies." IEEE TEMU 2016
- C30. K. Kontakis, M. Steiakaki, M. Kalochristianakis, K. Kapetanakis, A. Malamos, "Applying Semantic Rules for Web Based Virtual Environments", 9th international conference "New horizons in industry business and education" (NHIBE), 2015
- C29. Haroula Andrioti, Andreas Stamoulias, Kostas Kapetanakis, Spyros Panagiotakis, Athanasios G. Malamos, "Integrating WebRTC and X3DOM: bridging the gap between communications and graphics." Web3D 2015: 9-15
- C28. D. I. Kosmopoulos, M. Kalochristianakis, A. Malamos, S. Chatzis, M. Pternea, K. Kepaptsoglou, M. Karlaftis, "Developing public transport network systems: the DIANA approach", Proceedings of the ACM 18th Panhellenic Conference on Informatics (PCI 2014), Athens, October 2014
- C27. Andreas Stamoulias, Athanasios G. Malamos, Markos Zampoglou, Don Brutzman, Enhancing X3DOM Declarative 3D with Rigid Body Physics Support, Proceedings of the ACM 19th International Conference on 3D Web Technology (Web3D 2014), Vancouver, Canada, 8-10 August, 2014
- C26. Konstantinos Kontakis, Malvina Steiakaki, Kostas Kapetanakis, Athanasios G. Malamos, DEC-O: an ontology framework and interactive 3D interface for interior decoration applications in the web, Proceedings of the ACM 19th International Conference on 3D Web Technology (Web3D 2014), Vancouver, Canada, 8-10 August, 2014

- C25. Kostas Kapetanakis, Spyros Panagiotakis, Athanasios Malamos, , "Adaptive Video Streaming on top of Web3D: A bridging technology between X3DOM and MPEG-DASH", Proceedings of the 6th IEEE International Conference on Telecommunications and Multimedia (TEMU) 2014, Heraklion, Crete, Greece, July 28-30, 2014.
- C24. M. Kalochristianakis, Markos Zampoglou, Kostas Kontakis, Kostas Kapetanakis, Athanasios Malamos, "Scene integration for virtual worlds", Proceedings of the 6th IEEE International Conference on Telecommunications and Multimedia (TEMU) 2014, Heraklion, Crete, Greece, July 28-30, 2014.)
- C23. Kostas Kapetanakis, Markos Zampoglou, Fotis Milionis, Athanasios G. Malamos, Spyros Panagiotakis and Emmanuel Maravelakis, State-of-the-art web technologies for progressive presentation of synthetic cultural heritage scenes, DCH: Digitizing Cultural Heritage Workshop, In: 5th IEEE International Conference on Information, Intelligence, Systems and Applications, 7-9 July 2014, Chania-Crete, Greece
- C22. M. Zampoglou, P. Spala, K. Kontakis, A. G. Malamos, and J. A. Ware, "Direct mapping of x3d scenes to mpeg-7 descriptions," in Proceeding of the ACM 18th International Conference on 3D Web Technology June 20-22, 2013 San Sebastian, Spain.
- C21. K Kapetanakis, S Panagiotakis, AG Malamos , "HTML5 and WebSockets; challenges in network 3D collaboration," Proceedings of the ACM 17th Panhellenic Conference on Informatics, 33-38
- C20. Markos Zampoglou, Athanasios G. Malamos, Emmanuel Sardis, Anastasios Doulamis, Kostas Kapetanakis, Konstantinos Kontakis, Vrettos Moulos, George Vafiadis, "A Content-Aware Cloud Platform for Virtual Reality Web Advertising," in Workshop Cloud-of-Things 2013 (CoT'13), July 16th-17th, 2013, Athens, Greece.
- C19. Kostas Kapetanakis, Spyros Panagiotakis, Athanasios G. Malamos, "HTML5 and WebSockets; challenges in network 3D gaming", in Proceedings of the 17th Panhellenic Conference on Informatics (PCI 2013), 19-21 September, 2013, Thessaloniki, Greece.
- C18. Athanasios G.Malamos, Paraskevi V. Sympa, Georgios S.Mamakis, "Xml Annotation Of Conceptual Characteristics In Interior Decoration", 6th International Conference, New Horizons in Industry, Business and Education (NHIBE 2009), 27 - 28 August 2009, Santorini
- C17. Athanasios G. Malamos, Georgios Mamakis, Paraskevi Sympa, Eleni Kotanitsi, Yannis Kaliakatsos, Dionysios Kladis, Alfredo Javier Gonel Crespo, Alvaro Zubizarreta Lopez, "Extending X3D-based educational platform for mathematics with multicast networking capabilities", in Proceedings of WBE2009, Phuket, Thailand, 16-18 March 2009
- C16. Malamos A.G., Mamakis G., Sympa P., Tsirakis M., Piperidis G., Karakechagias J., Mavraganis K., Kaliakatsos Y., "VCLASS-3D: A Multimedia Educational Collaboration Platform With 3D Virtual Workspace Support.", WBE '06, Puerto Vallarta, 23-25 January 2006
- C15. Mamakis G., Malamos A.G., Kaliakatsos Y., Axaridou A., Ware A., "An algorithm for automatic content summarization in modern greek language", in Proceedings of IEEE-ICICT '05, ISBN 0-7803-9270-1, Cairo, Egypt, pp 579-591, 5-6 December 2005
- C14. Malamos A.G., Mamakis G., Anastasopoylos T., Kaliakatsos Y., Axaridoy A., "Enhancing Access in Knowledge for Adults by Applying WWW (whenever- wherever-whatever) Capabilities in Computer Based Education. A Case Study of Virtual Workspaces Technology Adoption in Learning Environments.", In Proceedings of NHIBE 2005, ISBN 960-85316-9-1, Corfu Greece, pp.196-203, 25 - 26 August 2005

- C13. Mamakis G, Malamos A.G, “A novel Peer to Peer Application with dedicated extensions for teleworking applications”, In Proceedings of the 9th International Telework Workshop, Hersonnisos, Crete, 6-9 September 2004.
- C12. Malamos, A., Kaliakatsos, Y., and Axaridou, A., ‘Improving training by applying www (“whenever–wherever–whatever”) capabilities to learning platforms’ NHIE ISBN 960-85316-7-5, Santorini,Greece, pp.201-206, 28-29 August 2003
- C11. Kaliakatsos Y., Malamos A.G., Damianakis A., «The implementation of SCORM e-learning standards in a pilot distance learning system in T.E.I. of Crete», Interactive Computer Aided Learning (ICL2002), ISBN: 3-933146-83-6, Villach, Austria, 25 to 27 September 2002
- C10. Kaliakatsos Y., Malamos A.,«E-learning: A tutorial in e-learning standards and technologies,» 8th International Netties Conference, Ilmenau, Germany, 2002
- C9. Malamos A. G., Damianakis A.,«The SCORM e-learning standards. An implementation case study,» 8th International Netties Conference, Ilmenau, Germany, 2002
- C8. Adam Damianakis and Thanasis Malamos, «e-COSMOS: A distance learning system for secondary education,» 3rd Hellenic Conference with International Participation "INFORMATION & COMMUNICATION TECHNOLOGIES IN EDUCATION", pp. 449-552, RHODES, GREECE, 26th - 29th SEPTEMBER 2002
- C7. E.N. Malamos A.G. Malamos, and T.A. Varvarigou, «Fast Implementation Of Binary Morphological Operations On Hardware-Efficient Systolic Architectures,» Journal of VLSI Signal Processing, 25(1), pp. 79-93, May 2000.
- C6. Malamos, A.G. , Varvarigou, T.A. , Malamos, E.N. «Quality of Service admission control for multimedia end-systems,» Computers and Computational Engineering in Control 1999, ISBN: 9608052122, pp. 55-61 (publication of selected papers from IMACS/IEEE CSCC'99)
- C5. A.G. Malamos, E.N. Malamos and T.A. Varvarigou, «On The Definition, Modeling, And Implementation Of Quality Of Service (QoS) In Distributed Multimedia Systems, » IEEE ISCC 99, Egypt, July 1999.
- C4. E.N. Malamos A.G. Malamos, and T.A. Varvarigou, «Fast Implementation Of Binary Morphological Operations On Hardware-Efficient Systolic Architectures,» IMACS/IEEE CSCC'99, Greece, July 1999.
- C3. A.G. Malamos, T.A. Varvarigou and E.N. Malamos, «Scheduling Multimedia Applications With Quality Of Service Requirements to Multiprocessor Systems,» 7th IASTED Int. Conf. On Applied Informatics (AI 99), Austria, Feb. 1999.
- C2. G. A. Rovithakis, A.G. Malamos, T.A. Varvarigou and M.A. Christodoulou, «Quality Assurance in Networks a High Order Neural Net Approach, » 37th IEEE Conf. On Decision and Control CDC98, Florida, Dec. 1998.
- C1. A.G. Malamos, K. Kalaitzakis and N.C. Voulgaris, «A Microcontroller – Based System for Monitoring and Controlling the Operation of an Uninterruptible Power Supply,» IEEE Int. Symp. On Industrial Electronics, Greece, July 1995.