

Curriculum Vitae for Xenophon Zabulis

Date of birth: 27 October 1973

Citizenship: Greek

Marital Status: Married with one child.

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Updated 5 January 2021

EDUCATION

1998-2001 *PhD, Computer Science Department, University of Crete (CSD-UoC).*

Doctoral Thesis: “*Perceptually Relevant Mechanisms for the Description and Retrieval of Visual Information*”, Advisor: Professor Stelios C. Orphanoudakis.

1996-1998 *MSc, Computer Science Department, University of Crete.*

Master’s Thesis: “*Use of autonomous software entities in the resource management of an emergency prehospital medical system*”. Advisor: Professor Stelios C. Orphanoudakis.

1992-1996 *BSc, Computer Science Department, University of Crete.*

BSc Thesis: “*Porting the functionality PC over the World Wide Web*”, Advisor: Professor Stelios C. Orphanoudakis.

1985-1991 *High School Studies, Anatolia American College of Thessaloniki, Greece.*

SCHOLARSHIPS

2001: “Manasaki” graduate scholarship. This scholarship is awarded annually to the best graduate student of CSD-UoC.

1998-2000: Graduate student scholarship from ICS-FORTH, for R&D work at the Computer Vision and Robotics Laboratory of ICS-FORTH.

1996-1998: Graduate student scholarship from ICS-FORTH, for R&D work at the Center for Medical Informatics and Health Telematics Applications of ICS-FORTH.

1995-1998: Undergraduate scholarship, from ICS-FORTH, for R&D work at the Center for Medical Informatics and Health Telematics Applications of ICS-FORTH.

LANGUAGES

Native in Greek. Excellent command of the English language. Simple command of the French language.

PROFESSIONAL EXPERIENCE

2010-present Principal Researcher (B), Institute of Computer Science of the Foundation for Research and Technology - Hellas (ICS-FORTH)

2008- 2010 Associate Researcher (C), Institute of Computer Science of the Foundation for Research and Technology – Hellas (ICS-FORTH)

2007 Post-doctorate Fellow, Institute of Computer Science of the Foundation for Research and Technology – Hellas (ICS-FORTH)

2004-2007 Post-doctorate Fellow, Informatics and Telematics Institute, Centre of Research and Technology Hellas (ITI-CERTH)

2004-2007 Manager of Informatics Group, Telloglion Art Foundation, Thessaloniki, Greece.

2003-2004 Military Service

- 2002-2003** Post-doctorate Fellow, General Robotics, Automation, Sensing and Perception Laboratory, Department of Computer and Information Science, University of Pennsylvania.
- 2001-2002** Post-doctorate Fellow, Institute for Research in Cognitive Science, University of Pennsylvania.
- 1999-2000** Part-time employment as software engineer for the Research and Development Department of FORTHnet S.A.
- 1994-1995** Part-time employment as developer at the Multimedia Lab of the Computing Center of the University of Crete.
- 1986-1987** Part-time employment as technician at Apple Computers in Thessaloniki, Greece.

TEACHING EXPERIENCE

- 2009-2020 Adjunct Professor, CSD-UoC, course: “*CSD-150, Programming*”.
- 2011-2012 “*Computational Vision for Interactive Applications*”, instructor at summer school at FORTH, for graduate students of the University of York, Canada.
- 2008-2011 Adjunct Professor, Mathematics Department - UoC, course: “*Introduction to Computer Programming*”.
- 2004-2007 Co-tutoring with Prof. M. Strintzis in the “*Interdisciplinary Graduate Program in Medical Informatics*”, Aristotle University of Thessaloniki.
- 1996-1998 Teaching Assistant in undergraduate and graduate courses at the CSD - UoC.
- 1998-2001 Teaching Assistant in the courses of Computer Vision and Advanced Topics in Computer Vision, at the CSD - UoC.
- 1998 Lectures on the Java programming language to colleagues at the Center for Medical Informatics and Health Telematics Applications of ICS-FORTH.

AWARDS, HONOURS and DISTINCTIONS

- D1. Member of the Advisory Board of the H2020 EU project V4Design, “Visual and textual content repurposing FOR(4) architecture, Design and video virtual reality games”, GA 779962.
- D2. Distinction for the oral presentation for P. Anyfanti, A. Triantafyllou, E. Gkaliagkousi, **X. Zabulis**, A. Lazaridis, S. Hatzimichailidou, S. Aslanidis, S. Douma, “*Αξιολόγηση Αγγειακής Ερήμωσης των Τριχοειδών Δέρματος σε Ασθενείς με Ρευματοειδή Αρθρίτιδα: Συσχέτιση με Δείκτες Φλεγμονής και Μακροκυκλοφορίας*”, Πανελλήνιο Συνέδριο Υπέρτασης, Athens, 29-31 March 2018.
- D3. First prize for the oral presentation for P. Anyfanti, A. Triantafyllou, X. Zabulis, G. Triantafyllou, E. Gkaliagkousi, E. Gavriilaki, S. Douma, “*Συσχέτιση Του Λόγου Αρτηριών-Φλεβών Του Αμφιβληστροειδούς Με Αιμοδυναμικές Παραμέτρους σε Δείγμα Νεοδιαγνωσθέντων Υπερτασικών και Υγιών Ατόμων*”, 15ο Πανελλήνιο Συνέδριο της Ελληνικής Εταιρείας Υπέρτασης, 5-7 March 2015, Thessaloniki, Greece (in Greek).
- D4. Demonstrator “*Interactive Documents*” received the Gold Medal Award at the 2014 Taipei International Invention Show & Technomart.

- D5. Demonstrator "*iEat: An interactive restaurant table*" received the Silver Medal Award at the 2014 Taipei International Invention Show & Technomart.
- D6. Demonstrator "*Interactive Wall*" received the Platinum Award at the 2014 Taipei International Invention Show & Technomart.
- D7. Demonstrator "*iEat: An interactive restaurant table*" received the Thailand Award for Best International Invention by the National Research Council of Thailand - NRCT in "2014 INST: Taipei International Invention Show & Technomart", Taipei, Republic of China (Taiwan).
- D8. Demonstrator "*Interactive Documents*" at the booth of EU Project Medeat at the ITB Berlin Travel Trade Show 2014, which won the second place in the NGOs & Non-Profit Institutions category of the organized by the Cologne Business School.
- D9. "Alberto Ferrari" Poster Award of the ESH for Hemodynamics Session, for P. Anyfanti, A. Triantafyllou, E. Gavriilaki, K. Petidis, A. Pырpasopoulou, G. Triantafyllou, A. Dimakopoulou, X. Zabulis, S. Aslanidis, E. Gkaliagkousi, S. Douma, "*Phenotyping the retinal microcirculation by use of impedance cardiography: association between early retinal alterations and hemodynamic profile*", presented in the Joint Meeting of the European Society of Hypertension (ESH) and International Society of Hypertension (ISH), June 13-16 Athens 2014.
- D10. Distinction for the paper A. Triantafyllou, X. Zabulis, P. Anyfanti, E. Gavriilaki, E. Gkaliagkousi, A. Pырpasopoulou, V. Gkolias, G. Triantafyllou, B. Nikolaidou, C. Zamboulis, S. Aslanidis, S. Douma, "*Early and global estimation of microvascular target organ damage in hypertension by use of innovative software*", International Medical Olympiad, 18-20 October 2013, Thessaloniki, Greece.
- D11. First place of Young Investigator-in-Training Abstract Competition for A. Triantafyllou, M. Doumas, E. Gavriilaki, P. Anyfanti, X. Zabulis, E. Gkaliagkousi, K. Petidis, P. Karamaounas, V. Goliias, A. Pырpasopoulou, N. Lazaridis, C. Zamboulis and S. Douma, "*Correlation between retinopathy and hypertension phenotypes based on ambulatory blood pressure*", presented in the Annual Scientific of American Society of Hypertension, 19-22 May 2012, New York, U.S.A. as an oral presentation.
- D12. "Alberto Ferrari" Poster Award of the ESH for Small Vessels session, for A. Triantafyllou, X. Zabulis, P. Anyfanti, E. Gkaliagkousi, K. Petidis, E. Gavriilaki, A. Pырpasopoulou, P. Karamaounas, V. Goliias, B. Nikolaidou, M. Doumas, S. Douma, "*Retinopathy in Different Hypertension Phenotypes, Another Example of Target Organ Damage in Masked Hypertensives*", presented in the 22nd European Meeting on Hypertension and Cardiovascular Protection, April 26-29, 2012, ICC London.
- D13. Best paper award for G. Manikis, V. Sakkalis, X. Zabulis, P. Karamaounas, A. Triantafyllou, S. Douma, C. Zamboulis, K. Marias, "*An Image Analysis Framework for the Early Assessment of Hypertensive Retinopathy Signs*", International Conference on e-Health and Bioengineering, Iași, Romania, 24-26 November 2011.
- D14. In 2010, the VECTOR project was awarded with the Best Exhibit Award, which was sponsored by the Intel Company, at the ICT 2010 Event, which was organized by the European Commission at Brussels (27-29 September 2010).
- D15. In 2001, the "Manasaki" graduate scholarship was awarded to XZ. This scholarship is awarded annually to the best graduate student of each department, of the University of Crete.

SUPERVISION of ACADEMIC THESES

PhD theses

Supervision

- P1. C. Hernandez-Matas, “*Retinal image registration*”, CSD, UoC, 2014-2017.
P2. G. Galanakis, “*Person re-identification*”, CSD, UoC, (in progress).

Member of Advisory Board

1. M. Zidianakis, “*Supporting young children in Ambient Intelligence environments*”, PhD, member of advisory committee, CSD, UoC, 2010 - 2014.
2. N. Partarakis, “*Using Ambient Intelligence technologies for producing and disseminating art*”, PhD, member of advisory committee, CSD, UoC, 2010 - 2013.
3. M. Antunes, “*Stereo from symmetry*”, Department of Electrical Engineering, University of Coimbra, Portugal, 2008-2010.

Member of Examination Committee

1. D. Metilli, “*Enhancing the Computational Representation of Narrative and Its Extraction from Text*”, Istituto di Scienza e Tecnologie della Informazione, Consiglio Nazionale delle Ricerche, Pisa – Italy, Spring 2021.
2. G. Margetis, “*Interacting with augmented physical printed matter in ambient intelligence environments: the InPrinted framework*”, CSD, UoC, 2017.
3. M. Korozi, “*Empowering Intelligent Classrooms with Attention Monitoring and Intervention Cycles*”, CSD, UoC, 2017.
4. N. Kazepis, “*FIRMA: A Development Framework for Elderly- Friendly interactive Multimodal Applications for Assistive Robots*”, CSD, UoC, 2015.
5. S. Markou, “*Full-body pose tracking under severe occlusions - the Top View Reprojection approach*”, CSD, UoC, 2015.
6. J. Wigdahl, “*Retinal Vascular Measurement Tools for Diagnostic Feature Extraction*”, CSD, University of Padova, 2016.
7. J. Bhattacharyya, “*An Active Stereo-Panoramic Approach for Augmented Reality*”, National Institute of Technology Durgapur, 2013.

MSc theses

Supervision

- Q1. G. Kondylakis, “*Monitoring the actual execution of semantically annotated cooking processes in an intelligent kitchen environment*”, CSD-UoC, 2021 (in progress).
Q2. A. Rigaki, “*Visualization of Human Motion in Static Media Inspired by the Visual Arts*”, CSD-UoC,

2020 (in progress).

- Q3. M. Doulgeraki, “*An annotation editor for 3D models of objects and sites*”, CSD-UoC, 2020 (in progress).
- Q4. G. Galanakis, “*Tracking, re-identification and interaction using RGB-D sensors in Ambient Intelligence environments*”, CSD-UoC, 2015.
- Q5. K. Tzevanidis, “*GPU-powered multi-camera 3D reconstruction based on optimized foreground detection*”, CSD-UoC, 2010.

Member of Examination Committee

- 1. Manoli Konstantina, “*AmIChef: Supporting the cooking process in the Intelligent Kitchen*”, CSD-UoC, 2020.
- 2. E. Poutouris, “*A Software Development Kit for Adaptive Tabletop Applications in the Context of the Smart Home*”, UoC-CSD, 2020.
- 3. A. Qammaz, “*A Hybrid Method for 3D Pose Estimation of Personalized Human Body Models*”, CSD-UoC, 2018.
- 4. V. Nikodemou, “*Single Shot 3D Hand Pose Estimation Using Radial Basis Function Networks*”, CSD-UoC, 2017.
- 5. K. Roditakis, “*Generative 3D Hand Tracking with Spatially Constrained Pose Sampling*”, CSD-UoC, 2017.
- 6. V. Manousaki, “*Evaluating design options of Bag-of Visual-Words based methods for action classification*”, CSD-UoC, 2017.
- 7. E. Papadaki, “*CocinAR: An adaptable multimodal Augmented Reality system for developing cooking skills in children with cognitive impairments*”, CSD-UoC, 2017.
- 8. I. Oikonomidis, “*Deformable 2D shape matching based on shape context and dynamic programming*”, CSD-UoC, 2010.
- 9. K. Papoutsakis, “*Visual Object Tracking and Segmentation in a Closed Loop*”, CSD-UoC, 2010.
- 10. G. Floros, “*Vision based tracking of a 3D model of a human hand*”, CSD-UoC, 2009.

BSc theses

Supervision

- R1. M. Rizou, “*Digital restoration of 3D models of machines and garments relevant to the production of mastic*”, CSD-UoC, 2020 (in progress).
- R2. M. Anethreptaki, “*Digital restoration and representation of metallic parts in 3D models, with application in surfaces of traditional artifacts*”, CSD-UoC, 2020 (in progress).
- R3. N. Kokolantonakis, “*Requirements and protocol for the 3D documentation of Heritage Crafts tools*”, CSD-UoC, 2020.

- R4. I. Stivaktakis, “*Processing of human motion recordings for 3D visualization and activity analytics*”, CSD-UoC, 2020 (in progress).
- R5. E. Mantinaki, “*Requirements and protocol for the 3D modeling of handmade glass objects of Heritage Crafts*”, CSD-UoC, 2020.
- R6. E. Kyriazis, “*Texture remapping for visual enhancement of 3D reconstructions*”, CSD-UoC, 2019.
- R7. V. Katikaridou, “*Enhancing the accuracy of extrinsic calibration in a cluster of RGB-D cameras*”, CSD-UoC, 2014.
- R8. P. Katsifarakis, “*Head gesture recognition using a depth camera*”, CSD-UoC, 2013.
- R9. J. Perron, “*Assembly Verification*”, internship at ICS-FORTH in collaboration with University of York, Canada, 2012.
- R10. A. Chatziargiriou, “*Digitization of 3D scenes with an uncalibrated camera*”, Department of Electrical Engineering, Aristotle University of Thessaloniki, 2006.
- R11. G. Kordelas, “*Fast and accurate digitization of 3D scenes*”, Department of Electrical Engineering, Aristotle University of Thessaloniki, 2005.
- R12. A. Gretistas & K. Taptas, “*Real-time stereoscopic reconstruction of surfaces using the GPU*”, Department of Electrical Engineering, Aristotle University of Thessaloniki, 2006.
- R13. M. Papara, “*Studying the stability of wet foams by combining electrical, optical and volumetric measurements*”, with T. Karapantsios, Department of Chemistry, Aristotle University of Thessaloniki, 2006.
- R14. E. Danoura, “*Dynamic phenomena during the detachment of bubbles from a thin tube*”, with T. Karapantsios, Department of Chemistry, Aristotle University of Thessaloniki. 2006.

PARTICIPATION IN FUNDED RESEARCH PROGRAMS

Agency	Title	Duration	Origin or funding	Role
ICS-FORTH	Digital and Audiovisual Capacity Building for Accessible Heritage (DigiTraining)	2021-2023	EU – Creative Europe	Consortium Coordinator
ICS-FORTH	Reference mUltiscale Boiling Investigation (RUBI)	2019-2021	ESA	Outsource Contract
ICS-FORTH	Advanced systems for the preservation of large-scale artworks (PROTEAS)	2020-2022	Hellenic Foundation for Research and Innovation	Participation
ICS-FORTH	Intuitive, rapid and efficient in-situ measurement of complex transparent 3D objects with a focus on cultural heritage artefacts (Transparent3D)	2021-2023	EU - Marie Curie	Project Coordinator

ICS-FORTH	X - Sparing Robotics Technologies for Autonomous Navigation Extension Activity (XSEXTANT)	2020	ESA	Participation
ICS-FORTH	Deep AR Law Enforcement Ecosystem (DARLENE)	2020-2023	EU - H2020	Participation
ICS-FORTH	Representation and Preservation of Heritage Crafts (Mingei)	2018-2021	EU - H2020	Consortium Coordinator
ICS-FORTH	Interconnected Next-Generation Immersive IOT Platform of Crime and Terrorism Detection, Prediction, Investigation, and Prevention Services (CONNEXIONs)	2018-2021	EU - H2020	Scientific Responsible for FORTH
ICS-FORTH	Digitation of the painting collection of the Municipality of Heraklion	2018	Municipality of Heraklion	Project Coordinator
ICS-FORTH	System for Monitoring Vital Signs in Senior Citizens (MyHealthWatcher)	2017-2019	Hellenic Foundation for Research and Innovation	Consortium Coordinator
ICS-FORTH	Culture and Technology: New technologies in the Research, Study, Documentation, and Access to information of Cultural Heritage Objects and Monuments (POLITEIA-II)	2018-2021	Hellenic Foundation for Research and Innovation	Participation
ICS-FORTH	Complex wetting phenomena (COWET)	2014-2017	EU - Marie Curie ITN	Outsource Contract
ICS-FORTH	High performance avionics solution for advanced and complex GNC systems (HIPNOS)	2016-2017	ESA	Participation
ICS-FORTH	Retinal Vascular Modeling, Measurement and Diagnosis (REVAMMAD)	2013-2016	EU - Marie Curie ITN	Scientific Responsible for FORTH
ICS-FORTH	Code Optimization and Modification for Partitioning of Algorithms developed in SEXTANT (COMPASS)	2014-2015	ESA	Participation
ICS-FORTH	Sparing Robotics Technologies for Autonomous Navigation Extension Activity (SEXTANT)	2012-2013	ESA	Participation
ICS-FORTH	Distributed Sensor systems For Emergency Response (DISFER)	2013-2016	GSRT	Scientific Responsible for FORTH
ICS-FORTH	Dexterous Assembler Robot Working	2011-2015	EU - IST	Participation

	with Embodied Intelligence (DARWIN)			
ICS-FORTH	Novel Design Principles and Technologies for a New Generation of High Dexterity Soft-bodied Robots Inspired by the Morphology and Behavior of the Octopus (OCTOPUS)	2009-2013	EU - FET	Participation
ICS-FORTH	Ambient Intelligence Programme	2007-present	ICS - FORTH	Participation
ICS-FORTH	Macedonia from fragments to pixels	2007-2008	ICS - FORTH	Project & Technical Manager
ICS-FORTH	Versatile Endoscopic Capsule for gastrointestinal Tumor Recognition and Therapy (VECTOR)	2007-2011	EU - IST	Participation
ITI-CERTH	Information Mechanism Based on Visual Localization	2007	GSRT	Participation
ITI-CERTH	M-DRAW. A Platform for the Development of Graphics for Wireless Mobile Telephony Devices (MDRAW)	2005-2007	GSRT	Technical Manager
Telloglion Art Foundation	Multiple Utilization of Valuable Works and Archives of Modern Greek Art, via Informational and Educational Electronic Publications and the Internet	2005-2007	GSRT	Technical Manager
ITI-CERTH	In-vivo embolic detector - phase II	2005-2007	ESA	Scientific consult
ITI-CERTH	Integrated Three-Dimensional Television - Capture, Transmission and Display - 3DTV	2004-2007	EU - IST	Participation
ICS-FORTH	Health Emergency Management and Coordination through Telematics Operational Resources	1996-1998	EU - IST	Participation, graduate scholar
University of Pennsylvania	National Tele-Immersion Initiative	2002-2003	NSF	Participation
University of Pennsylvania	Post-doc funded by NSF Center of Excellence grant at the Institute for Research in Cognitive Science, University of Pennsylvania	2001-2002	NSF	Participation, research scholar
ICS-FORTH	Integrated Hospital Information System	1995-1996	GSRT	Participation, undergraduate scholar

ICS-FORTH	Trans-European Telecommunications Networks for Telemedicine	1996-1998	EU - IST	Participation, undergraduate scholar
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OUTCOMES OF R&D ACTIVITIES

Contracted software licenses

CL1. Microgravity Bubble Measurement Software (ICS-FORTH) - Aristotelean University of Thessaloniki, 2020.

CL2. *Bubble Measurement Software* (ICS-FORTH) - University of British Columbia, 2020.

CL3. *Bubble Measurement Software* (ICS-FORTH) - Technion University, 2020.

CL4. *Bubble Measurement Software* (ICS-FORTH) - Aristotelean University of Thessaloniki, 2019.

CL5. *Droplet Measurement Software* (ICS-FORTH)- Aristotelean University of Thessaloniki, 2018.

Demonstrators

Dm1. REMPE: Registration through Eye Modelling and Pose Estimation. A software system for retinal image registration. <http://www.ics.forth.gr/cvrl/rempe/>

Dm2. A system for the analysis of the shape of droplets and their 3D reconstruction from multiple views, with P. Karamaounas, as an outsource assignment for CoWet Marie Curie - ITN.

Dm3. An RGB-D dataset and evaluation methodology for detection and 6D pose estimation of texture-less objects (T-LESS) <http://cmp.felk.cvut.cz/t-less/>

Dm4. A benchmark dataset for the registration of retinal images <http://www.ics.forth.gr/cvrl/fire/>

Dm5. A benchmark dataset for the registration of multispectral images <http://www.ics.forth.gr/cvrl/msi/>

Dm6. A system for automatic generation of conference proceedings and printed material, developed during 2011-2015 with P. Karamaounas. It was utilized to create the proceedings for the following conferences: SiPS 2015, ICME 2013, ICME 2011, 3DTV 2007, 3DPVT 2006.

Dm7. "Interactive Documents" a system that augments multimedia upon printed documents upon a tabletop. Long term installations: "Info point", Tourism Office, Municipality of Heraklion, 2015. Temporary installation: "ITB Berlin" International Travel Trade Show, 5-9 March 2014. [\[WWW\]](#)

Dm8. "360°" is an interactive system that uses a steerable disk as an interactive, augmented display. Long term installations: "Info point", Tourism Office, Municipality of Heraklion, 2015, the "Alpha Bank Numismatic Collection", Archaeological Museum of Thessaloniki, 2014. [\[WWW\]](#)

Dm9. "Educational Card games" supports learning using physical cards and natural interaction. Long term installation: Rehabilitation Centre for Children with Disabilities, 2013. [\[WWW\]](#)

Dm10. "PaperView" is a system that augments physical surfaces digital information based on their location and orientation. Long term installations: National Research Foundation "Eleftherios K. Venizelos", 2015 and in "Info point", Tourism Office, Municipality of Heraklion, 2014. [\[WWW\]](#)

- Dm11. "Be There Now!" is an interactive system immerses user in background sceneries and landscapes. Long term installations: *"Info point"*, Tourism Office, Municipality of Heraklion, 2015, Telloglion Foundation of Art - Aristotle University of Thessaloniki, 2014, *"Creative Crete"*, Region of Crete, airports and ports at Heraklion and Chania, 2013. Temporary installations: *"ITB Berlin"* International Travel Trade Show, Berlin, 5-9 March 2014, *"Days for Tourism"*, Region of Crete, 26-29 September 2013, Eleftheria Square, Heraklion. [\[WWW\]](#)
- Dm12. The "Book of Ellie" augments a physical book and enables interaction through physical cards, to provide a playful approach to alphabet learning. [\[WWW\]](#)
- Dm13. "Macrographia" is an interactive system that presents very large images, which visitors can explore by walking around in a room. Long term installation: *"Macedonia: from fragments to pixels"*, Archaeological Museum of Thessaloniki, 2010. [\[WWW\]](#)
- Dm14. "SESIL" is a system enhancing physical books based on their content. [\[WWW\]](#)
- Dm15. "Study Table" is an interactive table that augments physical books. [\[WWW\]](#)
- Dm16. Project management and technical coordination of an exhibition of prototypical interactive systems with subjects drawn from ancient Macedonia, at the Archaeological Museum of Thessaloniki, with title *"Macedonia from fragments to pixels"*. <http://www.makedonopixels.org/>
- Dm17. K. Tzevanidis, X. Zabulis, T. Sarmis, P. Koutlemanis, N. Kyriazis, A. Argyros, *"From Multiple Views to Textured 3D Meshes: a GPU-powered Approach"*, Technical Demo, European Conference in Computer Vision, 2010.
- Dm18. "Retinal Images Analyzer" is an image analysis system for the measurement of retinal vessel width that was developed in collaboration with the 2nd Propaedeutic Department of Internal Medicine, Hippokration Hospital, School of Medicine, Aristotelian University of Thessaloniki, 2010.
- Dm19. A trinocular stereoscopic imaging device for the 3D imaging of psoriatic lesions, 2010, in collaboration with the Department of Dermatology, University of Crete.
- Dm20. In 2009, a dataset for head pose estimation from multiple distant views, annotated with ground truth data was constructed and publicly availed at: <http://www.ics.forth.gr/cvrl/headpose/>
- Dm21. An image analysis system for the measurement of size distribution, shape, motion of particles in densely concentrated samples, 2007, in collaboration with Division of Chemical Technology, School of Chemistry, Aristotle University of Thessaloniki. The system was utilized by the Department of Mining and Minerals Engineering, Virginia Polytechnic Institute and State University.
- Dm22. Technical contributions in parallel computing, on a 2400 CPU system at the Pittsburg Supercomputing Center, 2002-2004, for the real-time reconstruction of a scene from multiple images for tele-immersion. Participation at the *"Bandwidth Challenge"* of the Supercomputing Conference, Baltimore, 2002.
- Dm23. An integrated system for forwarding email to mobile phones using SMS messages, during 1999-2000, in the context of work for FORTHnet S.A.
- Dm24. Design and implementation of software infrastructures for the provision of Web services and distributed operating systems. Work in CMI-HTA of ICS FORTH and in FORTHnet, 1998-2000. Technology utilized in *"WebOnCOLL"* for real-time medical WWW services (ICS FORTH) and in *"Virtual Office"* for the provision of commercial services (FORTHnet).

Dm25. A Java programming interface for the Semantic Index System (SIS) developed and distributed commercially, by the Information Systems Laboratory of ICS-FORTH, 1998.

ACADEMIC/RESEARCH and COMMUNITY SERVICE

Advisory group

- Member of the advisory group "Information Technologies & Communications", of the General Secretariat for Research and Technology (GSRT), under the Ministry for Research and Technology of the Hellenic Republic.

Evaluation activities

- EC Future and Emerging Technologies Open Scheme under FET-Open, Evaluator.
- State Scholarships Foundation, 2011-14, Greece, Evaluator.
- General Secretariat for Research and Technology of Greece, 2008 - Project Reviewer.
- University of Patras, Karatheodoris Programme, 2010 - Project Reviewer.

Groups and Committees

- ERCIM Working Group "*The Sensor Web*", Member of Steering Committee.
- IEEE Communications Society, Technical Committee on "*Multimedia Communications, Interest Group*", Key member.

Co-organization of workshops and sessions

- ACM Multimedia, co-organization of workshop "International Workshop on User Experience in e-Learning and Augmented Technologies in Education", 2012.
- IEEE International Conference on Multimedia and Expo, Co-organization of workshop "Interactive Ambient Intelligent Multimedia Environments", 2011.
- 3DTV Conference 2007, Special Session, "*Perceptual Factors in 3D TV*", Kos, Greece, 7-9 May 2007, co-organizer with Anup Basu, University of Alberta.
- 1st International Conference on "Distributed, Ambient and Pervasive Interactions", in the context of HCI International 2013, the 15th "International Conference on Human-Computer Interaction", 2013-18 - Member of the Program Board.

Publications Chair

- SMC, IEEE International Conference on Systems, Man, and Cybernetics, 2017.
- SiPS, IEEE International Workshop on Signal Processing Systems, 2015.
- ICME, IEEE International Conference on Multimedia and Expo, 2013.

- ICME, IEEE International Conference on Multimedia and Expo, 2011.
- 3DTV, Conference, Capture Transmission and Display of 3D video, 2007.
- 3DPVT, International Symposium on 3D Data Processing, Visualization and Transmission, 2006.

Local Arrangements Chair

- ISVC, International Symposium on Visual Computing, 2013.
- ISVC, International Symposium on Visual Computing, 2012.

Session Chair

ICVS, International Conference on Computer Vision Systems, 2015; ISVC, International Symposium on Visual Computing, 2013; ISVC, International Symposium on Visual Computing, 2012; ISVC, International Symposium on Visual Computing, 2010; ISVC, International Symposium on Visual Computing, 2015; 3DPVT, International Symposium on 3D Data Processing, Visualization and Transmission 2006; 3DTV Conference, 2007.

Editing activities

- ‘*Applications of Computer Vision in Interactive Environments*’, Electronics (ISSN 2079-9292), Editor of special issue, 2021 (to appear).
- “*Capturing Material Knowledge: Re-examining heritage, ethnographic and digital approaches*”, Cahiers d’histoire du Cnam, Edited by A. Dubois and X. Zabulis, 2021 (to appear).
- “*International Journal of Digital Multimedia Broadcasting*”, Hindawi Publications, Member of editorial board, 2010-2017.
- “*Advances in 3DTV: Theory and Practice*”, Special Issue, Hindawi Publications, International Journal of Digital Multimedia Broadcasting, Volume 2010, Editor of special issue, 2010.

Reviewer for journals

Recent information on review service can be found on Publons:

<https://publons.com/researcher/468611/xenophon-zabulis/peer-review/>

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| • 3D Research, Springer | • International Journal of Machine Learning and Cybernetics, Elsevier |
| • Applied Optics, Optical Society of America | • ISA Transactions, Elsevier |
| • Chemical Engineering and Technology, Wiley | • Journal of Ambient Intelligence and Humanized Computing |
| • Computer, Oxford University Press | • Journal of Computer Science and Technology |
| • Computer Graphics Forum, Wiley | • Journal of Imaging |
| • Computer Vision and Image Understanding, Elsevier | • Journal of Neuroscience Methods |
| • Computers in Human Behavior, Elsevier | • Journal of the Optical Society of America A |
| • Displays, Elsevier | • Journal of Virtual Reality and Broadcasting, Dusseldorf University of Applied Sciences |
| • Electronics, MDPI | • Journal of Visual Communication and Image Representation |
| • Human Factors, Human Factors and Ergonomics Society | • KSII Transactions on Internet and Information |
| • IEEE Signal Processing Letters | |

- IEEE Transactions on Circuits and Systems for Video Technology
- IEEE Transactions on Image Processing
- IEEE Transactions on Multimedia
- IEEE Journal of Selected Topics in Signal Processing
- Image and Vision Computing, Elsevier
- Interacting with Computers, Elsevier
- International Journal of Computer Assisted Radiology and Surgery, Springer
- International Journal of Human-Computer Interaction, Taylor Francis
- International Journal of Digital Multimedia Broadcasting, Hindawi
- Systems
- Machine Vision and Applications, Springer
- Multimedia Systems, Springer
- Multimedia Tools and Applications, Kluwer Academic Publications
- Neurocomputing, Elsevier
- Optics Express, The Optical Society
- Pattern Recognition Letters, Elsevier
- Pattern Recognition, Elsevier
- Sensors, MDPI
- Universal Access in the Information Society, Springer

Reviewer for conferences

- 3DV 2015-2020, 3D Conference
- 3DPVT 2006-2010, International Symposium on 3D Data Processing, Visualization and Transmission
- 3DTV Conference, 2007-2016. Capture Transmission and Display of 3D Video
- ACCV 2012-2020, Asian Conference in Computer Vision
- AIME 2001, Conference on Artificial Intelligence in Medicine
- CGI 2011, Computer Graphics International
- CGVCVIP 2012-13 IADIS Computer Graphics, Visualization, Computer Vision and Image Processing
- CVPR 2006-2020, IEEE Computer Vision and Pattern Recognition
- DICTA 2015, International Conference on Digital Image Computing: Techniques and Applications
- DSP 2009, International Conference on Digital Signal Processing
- ECC 2014, European Control Conference
- ECCV 2012-20 European Conference on Computer Vision
- HCII 2013-20, Human Computer Interaction International
- ICBISP 2015, IET International biomedical image and signal processing
- ICCES 2013, International Conference on Computer Engineering & Systems
- ICCV 2009-2020, International Conference in Computer Vision
- ICCVG 2014, International Conference on Computer Vision and Graphics 2014
- ICIIP 2008-2020, International Conference in Image Processing
- ICME 2011-2016, IEEE International Conference on Multimedia and Expo
- ICRA 2013-18, International Conference on Robotics and Automation, 2013
- ICT4AgeingWell 2015, International Conference on Information and Communication Technologies for Ageing Well and e-Health
- IEEE International Conference on Systems, Man, and Cybernetics 2012
- International Symposium on Ubiquitous Computing and Ambient Intelligence 2011 UCAmI
- IROS 2011-17, IEEE/RSJ International Conference on Intelligent Robots and Systems
- ISVC 2008-2017, International Symposium on Visual Computing
- MED 2011, Mediterranean Conference on Control and Automation
- OMNIVIS 2008, Omnidirectional Vision, Camera Networks and Non-classical Cameras
- SIBGRAPI 2014-17, Conference on Graphics, Patterns and Images
- WACV 2012-20, Workshop on the Applications of Computer Vision

PUBLICATIONS

Journal articles

- J1. C. Hernandez-Matas, X. Zabulis and A. Argyros, "*REMPE: Registration of Retinal Images Through Eye Modelling and Pose Estimation*", IEEE Journal of Biomedical and Health Informatics, vol. 24, no. 12, pp. 3362-3373, Dec. 2020, doi: 10.1109/JBHI.2020.2984483.
- J2. C. Hernandez-Matas, **X. Zabulis**, A. Argyros, "*Retinal Image Registration as a Tool for Supporting Clinical Applications*", Computer Methods and Programs in Biomedicine, 2020, doi:10.1016/j.cmpb.2020.105900
- J3. E. Stefanidi, N. Partarakis, **X. Zabulis**, I. Adami, S. Ntoa, G. Papagiannakis, "*Transferring Traditional Crafts from the Physical to the Virtual World: An Authoring and Visualization Method and Platform*", Journal on Computing and Cultural Heritage, (submitted), 2020.
- J4. N., Partarakis, **X. Zabulis**, A. Chatziantoniou, N. Patsiouras, I. Adami, "*An Approach to the Creation and Presentation of Reference Gesture Datasets, for the Preservation of Traditional Crafts*". Applied Sciences, 2020, 10, 7325, doi:10.3390/app10207325.
- J5. **X. Zabulis**, C. Meghini, N. Partarakis, C. Beisswenger, A. Dubois, M. Fasoula, V. Nitti, S. Ntoa, I. Adami, A. Chatziantoniou, V. Bartalesi, D. Metilli, N. Stivaktakis, N. Patsiouras, P. Doulgeraki, E. Karuzaki, E. Stefanidi, A. Qammaz, D. Kaplanidi, I. Neumann-Janien, U. Denter, H. Hauser, A. Petraki, I. Stivaktakis, E. Mantinaki, A. Rigaki, G. Galanakis, "*Representation and Preservation of Heritage Crafts*", Sustainability, 12(4), 1461, 2020, doi:10.3390/su12041461
- J6. **X. Zabulis**, C. Meghini, N. Partarakis, D. Kaplanidi, P. Doulgeraki, E. Karuzaki, E. Stefanidi, T. Evdemon, D. Metilli, V. Bartalesi, M. Fasoula, E. Tasiopoulou C. Beisswenger, "*What is needed to digitise knowledge on Heritage Crafts?*", Memoriamedia Review, 4(1):1-25, 2019, ISSN 2183-3753.
- J7. G. Lentaris, I. Stratakos, I. Stamoulias, D. Soudris, M. Lourakis, **X. Zabulis**, "*High-Performance Vision-Based Navigation on SoC FPGA for Spacecraft Proximity Operations*", IEEE Transactions on Circuits and Systems for Video Technology, 21 February 2019, doi:10.1109/TCSVT.2019.2900802.
- J8. A. Triantafyllou, P. Anyfanti, E. Gkaliagkousi, **X. Zabulis**, A. Vamvakis, V. Gkolias, K. Petidis, S. Aslanidis, and S. Douma, "*Association of Urinary Sodium Excretion with Vascular Damage: A Local Kidney Effect, Rather Than a Marker of Generalized Vascular Impairment*", International Journal of Hypertension, 7620563, 16 December 2018. doi:10.1155/2018/7620563
- J9. P. Anyfanti, A. Triantafyllou, E. Gkaliagkousi, **X. Zabulis**, P. Dolgyras, V. Galanopoulou, S. Aslanidis, S. Douma, "*Urinary albumin excretion in rheumatoid arthritis is not associated with markers of vasculopathy in distal microvascular beds*", Microcirculation, 13 November 2018, doi:10.1111/micc.12514.
- J10. I. Rios-López, P. Karamaoynas, **X. Zabulis**, M. Kostoglou, T. Karapantsios, "*Image analysis of axisymmetric droplets in wetting experiments: a new tool for the study of 3D droplet geometry and droplet shape reconstruction*", Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, doi:10.1016/j.colsurfa.2018.05.098.
- J11. I. Rios-Lopez, S. Evgenidis, M. Kostoglou, **X. Zabulis**, T. Karapantsios, "*Effect of initial droplet shape on the tangential force required for spreading and sliding along a solid surface*", Colloids and Surfaces A, 549 (2018) 164-173. doi:10.1016/j.colsurfa.2018.04.004.

- J12. P. Anyfanti, E. Gkaliagkousi, A. Triantafyllou, **X. Zabolis**, V. Galanopoulou, S. Aslanidis, S. Douma, "*Dermal capillary rarefaction as a marker of microvascular damage in patients with rheumatoid arthritis: association with inflammation and disorders of the macrocirculation*", *Microcirculation*, e12451, 7 May 2018, doi:10.1111/micc.12451.
- J13. G. Lentaris, K. Maragos, I. Stratakos, L. Papadopoulos, O. Papanikolaou, D. Soudris, M. Lourakis, **X. Zabolis**, D. Gonzalez-Arjona, and G. Furano, "*High-Performance Embedded Computing in Space: Evaluation of Platforms for Vision-Based Navigation*", *Journal of Aerospace Information Systems*, 20 February, 2018, doi:10.2514/1.1010555.
- J14. P. Koutlemanis, **X. Zabolis**, "*Tracking of multiple planar projection boards for interactive mixed-reality applications*", *Multimedia Tools and Applications*, p. 1-31, Oct, 2017. doi:10.1007/s11042-017-5313-6.
- J15. P. Anyfanti, A. Triantafyllou, E. Gkaliagkousi, N. Koletsos, G. Athanasopoulos, **X. Zabolis**, V. Galanopoulou, S. Aslanidis, S. Douma. "*Retinal vessel morphology in rheumatoid arthritis: association with systemic inflammation, subclinical atherosclerosis and cardiovascular risk*", *Microcirculation*. 2017 Sep 19. doi:10.1111/micc.12417.
- J16. A. Zacharopoulos, K. Hatzigiannakis, P. Karamaounas, V. Papadakis, M. Andrianakis, K. Melessanaki, **X. Zabolis**, "*A method for the registration of spectral images of paintings and its evaluation*", *Journal of Cultural Heritage*, 29:10-18, 2018, doi:10.1016/j.culher.2017.07.004
- J17. C. Hernandez-Matas, **X. Zabolis**, A. Triantafyllou, P. Anyfanti, S. Douma, A. Argyros, "*FIRE: Fundus Image Registration Dataset*", *Journal for Modeling in Ophthalmology* 2017;4:16-28.
- J18. **X. Zabolis**, M. Lourakis, P. Koutlemanis, "*Correspondence-free pose estimation for 3D objects from noisy depth data*", *The Visual Computer*, 2:193-211, 2016, doi:10.1007/s00371-016-1326-9.
- J19. C. Hernandez-Matas, **X. Zabolis**, A. Argyros, "*Retinal Image Registration under the Assumption of a Spherical Eye*", *Computerized Medical Imaging and Graphics*, 23 June 2016, doi:10.1016/j.compmedimag.2016.06.006.
- J20. A. Ntelidakis, **X. Zabolis**, D. Grammenos, P. Koutlemanis, "*Touch detection for planar interactive displays based on lateral depth views*", *Multimedia Tools and Applications*, pp 1-25, 28 June 2016, doi:10.1007/s11042-016-3695-5.
- J21. A. Triantafyllou, P. Anyfanti, G. Triantafyllou, **X. Zabolis**, S. Aslanidis, S. Douma, "*Impaired metabolic profile is a predictor of capillary rarefaction in a population of hypertensive and normotensive individuals*", *Journal of the American Society of Hypertension*, 2016, doi:10.1016/j.jash.2016.04.007.
- J22. S. Crespo-Garcia, N. Reichhart, C. Hernandez-Matas, **X. Zabolis**, N. Kociok, C. Brockmann, A.M. Jousen, O. Strauss, "*In Vivo Analysis of the Time and Spatial Activation Pattern of Microglia in the Retina Following Laser-Induced Choroidal Neovascularization*", *Experimental Eye Research*, 2015, doi:10.1016/j.exer.2015.07.012.
- J23. A. Triantafyllou, P. Anyfanti, E. Gavriilaki, **X. Zabolis**, E. Gkaliagkousi, K. Petidis, G. Triantafyllou, V. Gkolias, A. Pырpasopoulou, S. Douma, "*Association Between Retinal Vessel Caliber and Arterial Stiffness in a Population Comprised of Normotensive to Early-Stage Hypertensive Individuals*", *American Journal of Hypertension*, 2014. doi:10.1093/ajh/hpu074.
- J24. A. Triantafyllou, P. Anyfanti, **X. Zabolis**, E. Gavriilaki, P. Karamaounas, E. Gkaliagkousi, K. Petidis, A. Pырpasopoulou, C. Girasis, S. Aslanidis, S. Douma, "*Accumulation of microvascular target organ damage in newly diagnosed hypertensive patients*", *Journal of the American Society of*

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- J25. D. Michel, **X. Zabulis**, A. Argyros, "Shape from Interaction", *Machine Vision and Applications*, 25(4):1077-1087, 2014. doi:10.1007/s00138-014-0602-9.
- J26. G. Margetis, **X. Zabulis**, S. Ntoa, P. Koutlemanis, E. Papadaki, M. Antona, C. Stephanidis, "*Enhancing education through natural interaction with physical paper*", *Universal Access in the Information Society*, Special Issue: "User Experience and Access using Augmented and Multimedia Technologies", 1-24, 2014, doi:10.1007/s10209-014-0365-0.
- J27. P. Koutlemanis, A. Ntelidakis, **X. Zabulis**, D. Grammenos, I. Adami, "*A Steerable Multitouch Display for Surface Computing and its Evaluation*", *International Journal on Artificial Intelligence Tools*, 22(6):1360016, 2013, doi:10.1142/S0218213013600166.
- J28. D. Grammenos, **X. Zabulis**, D. Michel, P. Paderis, T. Sarmis, G. Georgalis, P. Koutlemanis, K. Tzevanidis, A. A. Argyros, M. Sifakis, P. Adam-Veleni, C. Stephanidis, "*A Prototypical Interactive exhibition for the Archaeological Museum of Thessaloniki*", *International Journal of Heritage in the Digital Era*, 2(1):75-99, 2013.
- J29. A. Tosca, A. Kokolakis, K. Lasithiotakis, A. Zacharopoulos, **X. Zabulis**, I. Marnelakis, J. Ripoll, C. Stephanidis, "*Development of a three-dimensional surface imaging system for melanocytic skin lesion evaluation*", *Journal Biomedical Optics*, 18(1):016009, January, 2013, doi:10.1117/1.JBO.18.1.016009.
- J30. A. Triantafyllou, M. Doumas, P. Anyfanti, E. Gkaliagkousi, **X. Zabulis**, K. Petidis, E. Gavriilaki, P. Karamaounas, V. Gkolias, A. Pypasopoulou, A. B. Haidich, C. Zamboulis, S. Douma, "*Divergent retinal vascular abnormalities in normotensive persons and patients with never-treated, masked, white coat hypertension*", *American Journal of hypertension*, doi:10.1093/ajh/hps040, January 2013.
- J31. **X. Zabulis**, D. Grammenos, T. Sarmis, K. Tzevanidis, P. Paderis, P. Koutlemanis, A. Argyros, "*Multicamera human detection and tracking supporting natural interaction with large-scale displays*", *Machine Vision and Application*, (2):319-336, 2012, doi:10.1007/s00138-012-0408-6.
- J32. G. Margetis, **X. Zabulis**, P. Koutlemanis, M. Antona, and C. Stephanidis, "*Augmented interaction with physical books in an Ambient Intelligence learning environment*". *Multimedia Tools and Applications*, (7):473-495, January 2012, doi:10.1007/s11042-011-0976-x.
- J33. M. Papara, **X. Zabulis**, T. D. Karapantsios, "*Container effects on the free drainage of wet foams*", *Chemical Engineering Science*, (64):1404-1415, 2009.
- J34. **X. Zabulis** and G. Floros, "*Modulating the shape and size of backprojection surfaces to improve accuracy in volumetric stereo*", *EURASIP Journal on Advances in Signal Processing*, 2009(1): 129789, 2009, ISSN:1110-8657, doi:10.1155/2009/129789.
- J35. A. Alatan, Y. Yemez, U. Gdkbay, **X. Zabulis**, K. Mller, C. Erdem, C. Weigel, and A. Smolic, "*Scene Representation Technologies for 3DTV - A Survey*", *IEEE Transactions on Circuits and Systems for Video Technology*, Special Issue on Multi-view Video Coding and 3DTV, 17(11):1587-1605, 2007.
- J36. E. Stoykova, A. Alatan, P. Benzie, N. Grammalidis, S. Malassiotis, J. Ostermann, S. Piekh, V. Sainov, C. Theobalt, T. Thevar and **X. Zabulis**, "*3D Time-varying Scene Capture Technologies - A Survey*", *IEEE Transactions on Circuits and Systems for Video Technology*, Special Issue on Multi-view Video Coding and 3DTV, 17(11):1568-1586, 2007.
- J37. **X. Zabulis**, M. Papara, A. Chatziargyriou, T. Karapantsios, "*Detection of densely dispersed*

spherical bubbles in digital images based on a template matching technique. Application to wet foams”, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 309(1-3): 96-106, 2007.

- J38. **X. Zabulis**, J. Sporning, S. C. Orphanoudakis, “*Perceptually Relevant and Piecewise Linear Matching of Silhouettes*”, Pattern Recognition, 38:75-93, 2005.
- J39. **X. Zabulis**, B. Backus. “*The Starry Night texture*”, Journal of the Optical Society of America A, 21(11):2049-2060, November 2004.
- J40. J. Mulligan, **X. Zabulis**, N. Kelshikar, and K. Daniilidis, “*Stereo-based Environment Scanning for Immersive Telepresence*”, IEEE Transactions on Circuits and Systems for Video Technology, Special Issue on Immersive Telepresence, 14(3):304-320, March 2004. ISSN: 1051-8215.
- J41. C. Chronaki, D. G. Katehakis, **X. Zabulis**, M. Tsiknakis, S. C. Orphanoudakis, “*WebOnCOLL: Medical Collaboration in Regional Healthcare Networks*”, IEEE Transactions on Information Technology in Biomedicine, 1(4):257-269, December 1997.
- J42. C. Chronaki, **X. Zabulis**, and S.C. Orphanoudakis, “*I²Cnet Medical Image Annotation Service*”, Medical Informatics, Special Issue, 22(4), 337-347, August 1997.

Submitted, under review

- J43. E. Stefanidi, N. Partarakis, **X. Zabulis**, I. Adami, S. Ntoa, G. Papagiannakis, “*Transferring Traditional Crafts from the Physical to the Virtual World: An Authoring and Visualization Method and Platform*”, Journal on Computing and Cultural Heritage, 2020.

Conference and workshop articles (full-paper review)

- C1. G. Galanakis, **X. Zabulis**, A. Argyros, “*Unsupervised Domain Adaptation for Person Re-Identification with Few and Unlabeled Target Data*”, International Symposium on Visual Computing (pp. 357-373). Springer, Cham, October 2020.
- C2. N. Partarakis, N. Patsiouras, T. Evdemon, P. Doulgeraki, E. Karuzaki, E. Stefanidi, S. Ntoa, C. Meghini, D. Kaplanidi, **X. Zabulis**, **X. Zabulis**, M. Fasoula, “*Enhancing the educational value of tangible and intangible dimensions of Heritage Crafts through role play gaming*”, International Conference: ArtsIT, Interactivity & Game Creation, December 10-11, 2020, Cyberspace, 2020.
- C3. A. Rigaki, N. Partarakis, **X. Zabulis**, C. Stephanidis, “*An Approach Towards Artistic Visualizations of Human Motion in Static Media Inspired by the Visual Arts*”. In ACHI 2020, International Conference on Advances in Computer-Human Interactions, Valencia, Spain, 21-25 November 2020.
- C4. E. Stefanidi, N., Partarakis, **X. Zabulis**, G. Papagiannakis, “*An Approach for the Visualization of Crafts and Machine Usage in Virtual Environments*”. ACHI 2020, International Conference on Advances in Computer-Human Interactions, Valencia, Spain, 21-25 November 2020.
- C5. G. Galanakis, **X. Zabulis**, A. Argyros, “*Novelty Detection for Person Re-identification in an Open World*”, In International Conference on Computer Vision Theory and Applications (VISAPP 2019), Scitepress, Prague, Czech Republic, 25-27 February 2019.
- C6. T. Hodan, F. Michel, E. Brachmann, W. Kehl, A. Buch, D. Kraft, B. Drost, J. Vidal, S. Ihrke, **X. Zabulis**, C. Sahin, F. Manhardt, F. Tombari, T. Kim, J. Matas, C. Rother, “*6D Object Pose Estimation Benchmark*”, European Conference on Computer Vision, September 8-14, 2018.

- C7. N. Partarakis, G. Margetis, E. Zidianakis, M. Sifakis, G. Drossis, C. Birliraki, A. Chatziantoniou, V. Neroutsou, S. Paparoulis, T. Toutountzis, P. Koutlemanis, **X. Zabulis**, S. Ntoa, D. Grammenos, E. Apostolakis, E. Stamatakis, M. Antona, C. Stephanidis, "*Interactive City Information Point: Your guide to Heraklion City*", International Conference on Human computer interaction, Las Vegas, 2018.
- C8. N. Partarakis, E. Kontaki, E. Zidianakis, G. Drossis, C. Birliraki, G. Metaxakis, A. Barka, V. Poutouris, G. Mathioudakis, I. Zidianaki, A. Chatziantoniou, P. Koutlemanis, **X. Zabulis**, G. Margetis, D. Grammenos, E. Apostolakis, E. Stamatakis, G. Paparoulis, M. Antona, C. Stephanidis, "*Digital Heritage Technology at the Archaeological Museum of Heraklion*", International Conference on Human computer interaction, 2018, Las Vegas, 15-20, July 2018.
- C9. M. Aviles, M. Lourakis, G. Lentaris, **X. Zabulis**, I. Stamoulias, K. Maragos, D. Mora, D. Soudris, "*SPARTAN: Vision-based Autonomous Navigation System for fast traversal planetary Rovers*", International Symposium on Artificial Intelligence, Robotics and Automation in Space, Madrid, Spain, 4-6 June, 2018.
- C10. D. Grammenos, **X. Zabulis**, A. Chatziantoniou, Z. Stefanidi, I. Adami and V. Neroutsou, "*COIN-O-RAMA: Designing an Interactive Exhibit for Exploring and Engaging with Coin Exhibitions*", Pervasive Technologies Related to Assistive Environments (PETRA), June 26-29, Corfu, Greece, 2018.
- C11. M. Lourakis, **X. Zabulis**, "*Model-Based Visual Tracking of Orbiting Satellites Using Edges*", IEEE/RSJ International Conference on Intelligent Robots and Systems, Vancouver, Canada, September 24-28, 2017.
- C12. G. Lentaris, I. Stratakos, I. Stamoulias, K. Maragos, D. Soudris, M. Lourakis, **X. Zabulis**, D. Gonzalez-Arjona, "*Project HIPNOS: Case Study of High-Performance Avionics for Active Debris Removal in Space*", Proceedings of IEEE Computer Society Annual Symposium on VLSI, ISVLSI, Bochum, Germany, 3-5 July 2017.
- C13. C. Hernandez-Matas, **X. Zabulis**, A. Argyros, "*An Experimental Evaluation of the Accuracy of Keypoints-Based Retinal Image Registration*", 39th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Jeju Island, Korea, July 11-15, 2017.
- C14. M. Lourakis, **X. Zabulis**, "*Satellite Visual Tracking for Proximity Operations in Space*", 14th Symposium on Advanced Space Technologies in Automation and Robotics (ASTRA'17), Leiden, the Netherlands, June 20-22, 2017.
- C15. T. Hodaň, P. Haluza, Š. Obdržálek, J. Matas, M. Lourakis, **X. Zabulis**, "*T-LESS: An RGB-D Dataset for 6D Pose Estimation of Texture-less Objects*", IEEE Winter Conference on Applications of Computer Vision (WACV), March 27-29, 2017, Santa Rosa, U.S.A.
- C16. C. Hernandez-Matas, **X. Zabulis**, A. Argyros, "*Retinal Image Registration through Simultaneous Camera Pose and Eye Shape Estimation*", Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Walt Disney World Resort, Orlando, FL, U.S.A., August 17-20, 2016.
- C17. A. Ntelidakis, **X. Zabulis**, D. Grammenos and P. Koutlemanis, "*Lateral touch detection and localization for interactive, augmented planar surfaces*", International Symposium on Visual Computing, Las Vegas, Nevada, U.S.A., 2015.
- C18. T. Hodan, **X. Zabulis**, M. Lourakis, S. Obdrzalek and J. Matas, "*Detection and Fine 3D Pose Estimation of Textureless Objects in RGB-D Images*", IEEE/RSJ International Conference on

Intelligent Robots and Systems (IROS), pp 4421-4428, Hamburg, Germany, September 28 - October 2, 2015.

- C19. C. Hernandez-Matas, **X. Zabulis**, A. Argyros, "*Retinal Image Registration Based on Keypoint Correspondences, Spherical Eye Modeling and Camera Pose Estimation*", International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Milan, Italy, August 25-29, 2015.
- C20. G. Drossis, A. Ntelidakis, D. Grammenos, **X. Zabulis**, C. Stephanidis, "*Immersing Users in Landscapes Using Large Scale Displays in Public Spaces*", Distributed, Ambient, and Pervasive Interactions (DAPI), Held as Part of HCI International 2015, Los Angeles, CA, U.S.A., August 2-7, 2015.
- C21. **X. Zabulis**, M. Lourakis, P. Koutlemanis, "*3D Object Pose Refinement in Range Images*", International Conference on Computer Vision Systems (ICVS), 6-9 July, 2015, Copenhagen, Denmark.
- C22. G. Lentaris, I. Stamoulias, D. Diamantopoulos, K. Maragos, K. Siozios, D. Soudris, M. Avilés Rodrigálvarez, M. Lourakis, **X. Zabulis**, I. Kostavelis, L. Nalpantidis, E. Boukas, A. Gasteratos, "*SPARTAN/SEXTANT/COMPASS: Advancing Space Rover Vision via Reconfigurable Platforms*", 475-486, Applied Reconfigurable Computing - International Symposium, ARC 2015, Bochum, Germany, April 13-17, 2015.
- C23. A. Kazakidi, **X. Zabulis**, D. Tsakiris, "*Vision-based 3D motion reconstruction of octopus arm swimming and comparison with an 8-arm underwater robot*", Proceedings of 2015 IEEE International Conference on Robotics and Automation (ICRA), May 26-30, 2015, Washington State Convention Center, Seattle, Washington. doi:10.1109/ICRA.2015.7139340.
- C24. **X. Zabulis**, M. Lourakis, S. Stefanou, "*3D Pose Refinement Using Rendering and Texture-Based Matching*", International Conference on Computer Vision and Graphics, International Conference on Computer Vision and Graphics 2014, Warsaw, Poland, September 15-17, 2014. Also, in Lecture Notes in Computer Science Volume 8671, 2014, pp 672-679, ISBN 978-3-319-11330-2.
- C25. C. Hernandez-Matas, **X. Zabulis**, "*Super Resolution for Fundoscopy Based on 3D Image Registration*", 36th Annual International Conference of the, IEEE Engineering in Medicine and Biology Society (EMBC), Chicago, August 26-30, 2014. doi:10.1109/EMBC.2014.6945077.
- C26. G. Galanakis, P. Katsifarakis, **X. Zabulis**, I. Adami. "*Recognition of Simple Head Gestures Based on Head Pose Estimation Analysis*", In AMBIENT 2014, The Fourth International Conference on Ambient Computing, Applications, Services and Technologies, pp. 88-96, August 24-28, Rome, Italy, 2014.
- C27. G. Galanakis, **X. Zabulis**, P. Koutlemanis, S. Paparoulis, V. Kouroumalis, "*Tracking persons using a network of RGBD cameras*", International Conference on Pervasive Technologies for Assistive Environments - PETRA 2014 Workshop, March 10-16, Rhodes, Greece, 2014.
- C28. E. Papadaki, **X. Zabulis**, S. Ntoa, G. Margetis, P. Koutlemanis, P. Karamaounas, C. Stephanidis, "*The Book of Ellie: An Interactive Book for Teaching the Alphabet to Children*", IEEE International Conference on Multimedia and Expo Workshops, July 15-19, 2013, San Jose, California, U.S.A.
- C29. G. Margetis, D. Grammenos, **X. Zabulis**, C. Stephanidis, "*iEat: An Interactive Table for Restaurant Customers' Experience Enhancement*", International Conference on Human-Computer Interaction: (8):666-670, 21-26 July 2013, Las Vegas, Nevada, U.S.A.

- C30. M. Lourakis, **X. Zabulis**, "*Model-based pose estimation for rigid objects*", International Conference on Computer Vision Systems, St. Petersburg, Russia on July 16-18, 2013. Lecture Notes in Computer Science Volume 7963, 2013, pp 83-92.
- C31. **X. Zabulis**, A. Triantafyllou, P. Karamaounas, C. Zamboulis, and S. Douma, "*An image analysis system for the assessment of retinal microcirculation in hypertension and its clinical evaluation*", Mediterranean Conference on Medical and Biological Engineering and Computing, Sevilla, Spain, September 25-28, 2013.
- C32. M. Lourakis, **X. Zabulis**, "*Accurate Scale Factor Estimation in 3D Reconstruction*", 15th Computer Analysis of Images and Patterns, York-UK 27-29, August 2013. Lecture Notes in Computer Science Volume 8047, 2013, pp 498-506.
- C33. P. Padeleris, **X. Zabulis**, A. Argyros, "*Multicamera tracking of multiple humans based on colored visual hulls*", IEEE International Conference on Emerging Technology & Factory Automation, Cagliari, Italy, from 10-13, September, 2013.
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- C75. N. Kelshikar, **X. Zabulis**, J. Mulligan, K. Daniilidis, V. Sawant, S. Sinha, T. Sparks, S. Larsen, H. Towles, K. Mayer-Patel, H. Fuchs, J. Urbanic, K. Benninger, R. Reddy, and G. Huntoon. "*Real-time Terascale Implementation of Tele-immersion*", Terascale Performance Analysis Workshop (in conjunction with International Conference on Computational Science), pp 33-42, June 2 - 4, Melbourne 2003.
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- B2. N. Partarakis N., **X. Zabulis**, M. Antona, C. Stephanidis (2020), “*Transforming Heritage Crafts to Engaging Digital Experiences*”. In: Liarokapis F., Voulodimos A., Doulamis N., Doulamis A. (eds) Visual Computing for Cultural Heritage. Springer Series on Cultural Computing. Springer, Cham. doi:10.1007/978-3-030-37191-3_13.
- B3. C. Hernandez-Matas, A. Argyros and **X. Zabulis**, “*Retinal image preprocessing, enhancement, and registration*”, In: Computational Retinal Image Analysis: Tools, Applications and Perspectives, Cover for Computational Retinal Image Analysis, Eds., E. Trucco, T. McGillivray, and Y. Xu, 59-77, ISBN 978-0-08-102816-2, Elsevier, 2019. doi:10.1016/C2018-0-00865-8,
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- B8. **X. Zabulis**, and S. Orphanoudakis, “*Image Content Analysis and Description*”, in State-of-the-Art in Content-Based Image and Video Retrieval, pp 1-21, Series: Computational Imaging and Vision, editors H. Burkhardt, H. Kriegel and R. Veltkamp, ISBN 1-4020-0109-6, Kluwer Academic Publishers, October 2001.

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- Ja2 S. Crespo-Garcia, N. Reichart, C. Hernandez-Matas, **X. Zabulis**, N. Kociok, A. Joussem, O. Strauss, “*Image Processing Allows Reliable In-Vivo Detection and Quantification of Retinal Microglia Following Laser-Induced Choroidal Neovascularization*”, Investigative Ophthalmology and Visual Science, June 2015, Vol. 56, 425.

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- Ja7 A. Triantafyllou, M. Doulmas, E. Gavriilaki, P. Anyfanti, **X. Zabolis**, E. Gkaliagkousi, K. Petidis, P. Karamaounas, V. Gkolias, A. Pyrpasopoulou, N. Lazaridis, C. Zamboulis, S. Douma. "*Correlation between retinopathy and hypertension phenotypes based on ambulatory blood pressure*", *Journal of Clinical Hypertension (Greenwich)* 2012;14. Suppl 1:3.
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- Ja9 **X. Zabolis** and B. Backus, "*The Starry Night texture and its use to isolate depth cues*", pp 85, Annual Meeting of Vision Sciences Society, Sarasota FL, U.S.A., *Journal of Vision* 2(7):235, 2002. doi:10.1167/2.7.234 ISSN 1534-7362.
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- Ca1 A. Kazakidi, M. Sfakiotakis, **X. Zabolis**, D. Tsakiris, "*Octopus arm kinematic analysis for use in multi-arm underwater robotic swimmers*", *IEEE International Conference for Robotic Automation*, Late Breaking Results. 26-30 May 2015, Seattle, WA, U.S.A., pp. 4136.
- Ca2 G. Lentaris, J. Stamoulias, M. Lourakis, **X. Zabolis**, K. Maragos, D. Diamantopoulos, K. Siozios, D. Soudris, M. Aviles Rodrigalvarez, "*FPGA use in future space rover navigation*", *SEFUW: Space FPGA Users Workshop*, 16-18 September 2014, European Space Research and Technology Centre (ESTEC).
- Ca3 A. Kazakidi, S. Stefanou, **X. Zabolis**, M. Kuba, J. A. Ekaterinaris, T. Flash, B. Hochner, D. P. Tsakiris, "*3D Reconstruction of Octopus Arm Swimming Motion*", *World Congress of Biomechanics*, Boston, U.S.A., July 6-11, 2014

- Ca4 A. Kazakidi, S. Stefanou, **X. Zabolis**, M. Kuba, A. Botvinnik, S. Hanassy, M. Sfakiotakis, T. Gutnick, J. A. Ekaterinaris, T. Flash, B. Hochner, D. P. Tsakiris, "*Motion reconstruction of arm swimming in the octopus vulgaris*", Congress of the European Society of Biomechanics (ESB2013), August 25-28, 2013, Patra, Greece.
- Ca5 A. Triantafyllou, **X. Zabolis**, P. Anyfanti, E. Gavriilaki, E. Gkaliagkousi, A. Pyrpasopoulou, V. Gkolias, G. Triantafyllou, B. Nikolaidou, C. Zamboulis, S. Aslanidis, S. Douma, "*Early and global estimation of microvascular target organ damage in hypertension by use of innovative software*", 2nd International Medical Olympiad, 18-20 October 2013, Thessaloniki, Greece.
- Ca6 M. Korozi, A. Leonidis, G. Margetis, P. Koutlemanis, **X. Zabolis**, M. Antona, C. Stephanidis, (2012). "*Ambient Educational Mini-games*". In G. Tortora, S. Levialdi & M. Tucci (Eds.), Proceedings of the International Working Conference on Advanced Visual Interfaces (AVI 2012), Capri Island (Naples), Italy, 21-25 May (802-803). New York: ACM Press.
- Ca7 D. Tsakiris, M. Sfakiotakis, **X. Zabolis**, and N. Pateromichelakis, "Visual Servoing for Robotic Endoscopic Capsules", IEEE/RSJ International Conference on Intelligent Robots and Systems, Workshop: Image-Guided Medical Robotic Interventions, IROS 2011, September 25, 2011, San Francisco, U.S.A.
- Ca8 M. Sfakiotakis, **X. Zabolis**, and D. Tsakiris, "*Endoscopic capsule line-of-sight alignment by visual servoing*". Extended abstract at the International Conference on Wearable Micro and Nano Technologies for Personalized Health (pHealth), Berlin, Germany, May 26-28, 2010.
- Ca9 **X. Zabolis**, I. Parissi and T. Karapantsios, "*Detection of densely dispersed spherical bubbles in digital images based on a template matching technique*", European Conference on Foams, Emulsions and Applications, Potsdam, Germany, July 2-6, 2006.
- Ca10 **X. Zabolis**, M. Papara and T. Karapantsios, "*A composite image analysis system for the determination of size distribution in densely dispersed bubbles/drops*", Conference of the European Colloid and Interface Society, Geneva, Switzerland, September 10-14, 2007.
- Ca11 M. Papara, **X. Zabolis**, E. Kalogianni and T. Karapantsios, "*How the Curvature and the Hydrophilic/Hydrophobic Nature of the Container Walls Affect the Drainage of Wet Foams?*", Conference of the European Colloid and Interface Society, Geneva, Switzerland, September 10-14, 2007.

Extended abstracts in national conferences

- CAn1. P. Anyfanti, A. Triantafyllou, **X. Zabolis**, G. Triantafyllou, E. Gkaliagkousi, E. Gavriilaki, S. Douma, "*Συσχέτιση Του Λόγου Αρτηριών-Φλεβών Του Αμφιβληστροειδούς Με Αιμοδυναμικές Παραμέτρους σε Δείγμα Νεοδιαγνωσθέντων Υπερτασικών και Υγιών Ατόμων*", 15ο Πανελλήνιο Συνέδριο της Ελληνικής Εταιρείας Υπέρτασης, 5-7 March 2015, Thessaloniki, Greece (in Greek).
- CAn2. A. Kokolakis, K. Lasithiotakis, P. Psycharakis, K. Krasagakis, S. Kruger-Krasagakis, **X. Zabolis**, T. Sarmis, G. Georgiadis, C. Stephanidis, A. Manios, A. Tosca, "*A Pioneer Approach in 3-D Imaging of Psoriatic Lesions*", Symposium of the Greek Society for Dermatology Jan 2010.

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- E1. **X. Zabulis**, I. Cheng, N. Grammalidis, G. A. Triantafyllidis, and P. Zanuttigh, “*Advances in 3DTV: Theory and Practice*”, International Journal of Digital Multimedia Broadcasting, Volume 2010 (2010), Article ID 579514. doi:10.1155/2010/579514,.

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- Jn1. A. Triantafyllou, P. Anyfanti, **X. Zabulis**, E. Gavriilaki, K. Petidis, E. Gkaliagkousi, P. Karamaounas, V. Golias, G. Triantafyllou, B. Nikolaidou, S. Douma, “*Συσχέτιση της αορτικής σκληρίας με την υπερτασική αμφιβληστροειδοπάθεια σε νεοεμφανιζόμενη υπέρταση σε σύγκριση με νορμοτασικά άτομα*”, Αρτηριακή Υπέρταση 2013; 22(2):152-160 (in Greek).

National conference and workshop articles (full paper review)

- Cn1. P. Anyfanti, A. Triantafyllou, E. Gkaliagkousi, **X. Zabulis**, A. Lazaridis, S. Hatzimichailidou, S. Aslanidis, S. Douma, “*Αξιολόγηση Αγγειακής Ερήμωσης των Τριχοειδών Δέρματος σε Ασθενείς με Ρευματοειδή Αρθρίτιδα: Συσχέτιση με Δείκτες Φλεγμονής και Μακροκυκλοφορίας*”, Πανελλήνιο Συνέδριο Υπέρτασης, Athens, 29-31 March 2018 (in Greek).
- Cn2. P. Anyfanti, A. Triantafyllou, **X. Zabulis**, P. Karamaounas, E. Gkaliagkousi, S. Aslanidis, S. Douma, “*Αξιολόγηση των διαμέτρων του αγγειακού δικτύου του αμφιβληστροειδούς σε ασθενείς με ρευματοειδή αρθρίτιδα*”, Πανελλήνιο Συνέδριο Υπέρτασης, Thessaloniki, 6-8 April 2017 (in Greek).
- Cn3. M. Sfakiotakis, **X. Zabulis**, N. Pateromichelakis, D. Tsakiris, “*Techniques for assisting motion and optical guidance of endoscopic capsules*”, Hellenic Robotics Conference (HEROC 2010), Patras, Greece, December 9-10, 2010 (in Greek).

Technical reports (non-refereed)

- TR1. P. Karamaounas, A. Zacharopoulos, K. Hatzigiannakis, M. Andrianakis, K. Melessanaki, **X. Zabulis**, “*Multispectral image registration based on keypoint matching and homography estimation for cultural heritage artifacts*”, ICS-FORTH, Technical report, May - 464, 2016.
- TR2. A. Ntelidakis, **X. Zabulis**, P. Koutlemanis, “*Lateral touch detection and localization for interactive, augmented planar surfaces*”, FORTH-ICS / TR-459, 2015.
- TR3. P. Karamaounas, **X. Zabulis**, “*Capillaroscope*”, FORTH-ICS, / TR-417, 2011.
- TR4. P. Karamaounas, G. Manikis, **X. Zabulis**, “*Retinal Images Analyser*”, FORTH-ICS, / TR-416, 2011.
- TR5. T. Sarmis and **X. Zabulis** and A. Argyros, “*A checkerboard detection utility for intrinsic and extrinsic camera cluster calibration*”, FORTH-ICS / TR-397, 2009.
- TR6. **X. Zabulis** and B. T. Backus, “*The Starry Night Texture*”, University of Pennsylvania, Institute for Research in Cognitive Science, IRCS-04-01, 2001.

TR7. **X. Zabulis** and J. Sporning and S. C. Orphanoudakis, “Scale Summarized and Focused Browsing of Primitive Image Content”, ICS-FORTH / TR-100-0271, 2000.

Other, non-refereed publications

- O1. K. Hatzigiannakis, A. Zacharopoulos, **X. Zabulis**, "Multispectral Imaging for the Analysis of Cultural Heritage Objects and Image Registration for Results Optimisation", ERCIM NEWS, No 108, 24-25, Special theme: Computational Imaging, January 2017.
- O2. **X. Zabulis**, G. Margetis, P. Koutlemanis, C. Stephanidis, "*Augmenting Printed Documents*", ERCIM NEWS, No 103, 24-25, Special theme: Augmented Reality, October 2015.
- O3. D. Grammenos, **X. Zabulis**, P. Koutlemanis, "*Turning an Ordinary Rotating Metal Disk into a Unique Interactive Exhibit*", ERCIM NEWS, No 103, 15-16, Special theme: Augmented Reality, October 2015.
- O4. **X. Zabulis**, A. Triantafillou, P. Karamaounas, V. Sakkalis, K. Marias, S. Douma, C. Zamboulis, "Eyes (and skin) don't lie", Kathimerini-Economist Special Issue, No 101, p 35, July 2012 (in Greek)
- O5. **X. Zabulis**, D. Grammenos, A. Argyros, D. Sifakis and C. Stephanidis, "*Macedonia: from fragments to Pixels*", ERCIM NEWS, 25-26, July 2011.
- O6. C. Stephanidis, **X. Zabulis**, D. Grammenos, M. Sifakis, "*Ambient Intelligent Technologies and their application in the field of Culture: Premiere in the Archaeological Museum of Thessaloniki*". Workshop on Museological trends and approaches. The recent Italian and Greek experience, Thessaloniki, Greece, 19 November 2010.
- O7. T. Sarmis, **X. Zabulis** and A. Argyros, "*A Software Platform for the Acquisition and Online Processing of Images in a Camera Network*", ERCIM NEWS, No 76, Special issue "The Sensor Web", 45-46, January 2009.
- O8. C. Chronaki, **X. Zabulis**, M. Tsiknakis and S. C. Orphanoudakis, "*Web - based Medical Services in the Regional Health Network of Crete*", ERCIM NEWS, No 29, 28-29, April 1997.

Invited talks

- 22/11/2019, "*Representation and Presentation of Heritage Crafts*", ICOM European Conference, Acropolis Museum, Athens, Greece.
- 2/10/2019, "EMbleMatiC Eco journeys: developing alternative sustainable tourism in Mediterranean hinterland areas", EMbleMatiC INTEREG Event, Anogia, Greece.
- 4 May 2017, "*Beyond museum guides: smart interaction with cultural heritage*" (Keynote talk), Hyperheritage International Symposium, Smart Heritage, Arab American University - Jenin, Palestine.
- 20 February 2017, "*2D-Drop shape/motion analysis, 3D-Drop image reconstruction from multiple views*", CoWet Marie-Curie ITN Training School in Thessaloniki/Metsovo.
- 10 June 2014, "*Image filtering, features and scale*", 3rd REVAMMAD Marie-Curie ITN Training

Event, Hersonissos, Crete, Greece.

- 9 June 2014, *“Image processing on the retina and on the computer”*, 2nd REVAMMAD Marie-Curie ITN Training Event, Hersonissos, Crete, Greece.
- 4 December 2013, *“Clinical aspects of Retinal Image Analysis”*, 1st REVAMMAD Marie-Curie ITN Training Event, Lincoln, UK.
- 20 September 2013, *“Ambient Intelligence”*, Pecha Kucha Vol 4, Heraklion.
- 13 July 2013, *“Interacting with the World”*, Foundation for Research and Technology - Hellas, FORTH Information Day, Heraklion, Crete.
- 10 November 2011, World Usability day celebration, *“Beyond the desktop: Designing interactive museum exhibits that combine learning with entertainment”*. Cyprus University of Technology, Limassol, Cyprus.
- 19 November 2010, Stephanidis, C., X. Zabulis, D. Grammenos, & Sifakis, M. *“Ambient Intelligent Technologies and their application in the field of Culture: Premiere in the Archaeological Museum of Thessaloniki”*. Workshop on Museological trends and approaches. The recent Italian and Greek experience, Thessaloniki, Greece.
- 15 April 2009, University of Coimbra, Department of Electrical Engineering, *“3D head pose estimation from multiple distant views”*.
- 19 May 2008, *“FORTH-ICS internal RTD Programme”*, meeting of the Sensor Web ERCIM working group, University College Dublin.
- 16 September 2005: Presentation of Call 172 of the Ministry of Finances on *“Documentation, Development and Promotion of Greek Civilization”* *“Τεκμηρίωση, Αξιοποίηση και Ανάδειξη του Ελληνικού Πολιτισμού”*, Concert Hall, Thessaloniki (in Greek).
- 11 November 2003: Informatics department, Aristotle University of Thessaloniki, *“Multi-camera reconstruction based on surface normal estimation and best viewpoint selection”*.
- 29 October 2003: ICS-FORTH *“Multi-camera reconstruction based on surface normal estimation and best viewpoint selection”*.
- 18 - 25, October, 2002: Presentation of a real-time tele-immersion system at the “Bandwidth Challenge” in conjunction with Super Computing 2002 Baltimore, U.S.A.
- 11 December 2001: Invited talk at GRASP Laboratory, University of Pennsylvania, *“Perceptually Relevant Retrieval of Visual Information”*.
- 15 June 2001: European Centre of Excellence CWI, Amsterdam, the Netherlands, *“Description, Management, and Retrieval of Visual Information”*.
- 14 May 2001: University of Pittsburgh, Computer Science Department *“An introduction to linked lists”*.
- 15 May 2001: Neurobiology Department, Duke University, Durham, U.S.A., *“Visual Information Management and Retrieval”*.
- March 2000, EU network meeting VIRGO TMR Genoa, Italy, *“Scale-Summarized Representation”*.

- 5 - 10 December 1999: Computer Science seminar in Dagstuhl, Germany, No. 99491, “*Content-Based Image and Video Retrieval*”.
- April 1997 meeting of the EU project HECTOR in Milan, Italy.

References in the news

- N1. [“Η έρευνα και η συντήρηση έργων τέχνης κοντά στο ευρύ κοινό”](#), Πατρίς, 14/11/2020.
- N2. [“Technology helping to preserve European Heritage”](#), on Futuris, 29 September 2020, Euronews TV and WWW.
- N3. [“How technology is helping to teach young people about heritage crafts”](#), on Futuris, 29 September 2020, Euronews TV and WWW.
- N4. Interview on Radio Chios with M. Fasoula, on the Mingei H2020 Innovation Action, 19 September.
- N5. Ambient Intelligence Interactive Systems, [SKAI TV](#), 1/10/2014.
- N6. Digitation of the painting collection of the Municipality of Heraklion, [ET3 TV](#), 4/7/2018.
- N7. [“Ρομποτικό χταπόδι στις ελληνικές θάλασσες!”](#), Το Βήμα - Science, 2 November 2014.
- N8. [“Νοημοσύνη διάχυτη στον χώρο”](#), Το Βήμα - Science, 30 January 2012.
- N9. “Διεθνής βράβευση για διάγνωση της υπέρτασης”, Ελευθεροτυπία, 20 December 2011.
- N10. “Το ΙΤΕ δείχνει το... μέλλον των αρχαίων”, Νέα Κρήτη, 20 December, 2010.
- N11. Retinal Image Analysis: [20/12/2011 Ελευθεροτυπία] [31/1/2012 Αγγελιοφόρος] [30/1/2012 E-Typos] [2/2/2012 Ιατρικός Τύπος] [[Τυπολόγος 12/12/2011](#)] [[Τυπολόγος 30/1/2012](#)]
- N12. Ambient Intelligence, in the press: [Καθημερινή 22/9/2014] [Έθνος 3/6/2015] [Νέα Κρήτη 16/12/2014] [21/11/2014 Grece Hebdo] [21/9/2014 CretaLive] [17/6/2015 Πατρίς] and on television: [1/10/2014 SKAI-TV]
- N13. Coverage of the prototype exhibition “Macedonia from fragments to pixels”, in the press: [Ελεύθερη Ώρα 03/11/2010] [2/11/2010 Το Βήμα] [2/11/2010 Καθημερινή] [2/11/2010 Τα Νέα] [2/11/2010 Έθνος] [29/10/2010 Ελευθεροτυπία] [2/11/2010 Τύπος Θεσσαλονίκης] [2/11/2010 Μακεδονία] [2/11/2010 Αγγελιοφόρος] [1/11/2010 Η Ναυτεμπορική] [2/11/2010 Ο Φιλελεύθερος] [3/11/2010 Ελεύθερος] [2/11/2010 Τέχνες] in electronic media: [2/11/2010 IN.GR] [2/11/2010 Μουσικολογία] [1/11/2010 WTMNEWS.GR] [2/11/2010 Protagon] and on television: [2/11/2010 SKAI-TV]
- N14. Tele-immersion: [20/11/2002 Science Daily] [18/11/2002 EurekAlert!]