

# Dr. Ioannis G. PALIOKAS

(Curriculum Vitae, September 2022)

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## At a glance:

I was born in 1974 in Thessaloniki, Greece. I received the Diploma of Electrical & Computer Engineer (Democritus University of Thrace-DUTH, Xanthi, Greece, 1999), the M.Sc. in Computer Science (New York Institute of Technology, New York, USA, 2003) and I was awarded a Ph.D. after my research on Exploratory Learning Environments (DUTH, Alexandroupolis, Greece, 2008). Today, I have over 10 years of post-doc experience in system & user requirements elicitation (for educational apps, games, eLearning & eHealth platforms), engineering education (using STEM), Web Platforms design, User eXperience, Augmented/Virtual Reality apps (for education, eHealth & Digital Heritage). Moreover, as an experienced (post-doc) researcher I have managed small teams of research assistants, and I have taught various Computer Science courses at university level institutions in Northern Greece. In 2021 I was elected Asst. Professor in International Hellenic University, School of Economics & Business Administration, Kavala, Greece.

## WORKING EXPERIENCE

CERTH/ITI (<https://www.iti.gr>)

2012–2022

### Post-doctoral Researcher

Currently, I am a Senior Researcher (experienced post-doctoral research associate) at the Information Technologies Institute (ITI) of the Centre for Research & Technology Hellas (CERTH). During the last eight years I have been working full time in numerous R&D EU funded projects (mainly FP7 & H2020), as well as national projects and projects funded by the industry.

CTI (<http://www.cti.gr/en>)

2011–2015

### Educational Software & Learning Objects Designer

By participating in the ‘Digital School’, a project of the Greek Ministry of Education which had a great impact on K-12 education, I was responsible for designing and authoring interactive learning objects, educational games and media-enriched versions of the official Elementary and Secondary education school books.

Hellenic Open Univ. (<http://eap.gr>)

2017–present

### Adjunct Faculty Member in Distance Education

As an adjunct faculty member of the Hellenic Open University (EAP), Faculty of Informatics, I undertake teaching responsibilities as instructor of the ‘Teaching Informatics’, ‘ICT in Education’ and ‘Educational Software Design’ training courses. My recent evaluations from my students (4.26/5.0) and studies Director (5.0/5.0) rank me on the top of the most popular teaching staff.

Higher Education Institutes 2005–2014 & 2021-today

### Teaching Faculty Member in Tertiary Education

Lecturer/Assistant Professor in University institutions:

- [International Hellenic University](#)
- [Higher School of Pedagogical & Technological Education](#)
- [University of Western Macedonia](#)
- [Alexander Technological Educational Institute](#)
- [Democritus University of Thrace](#)
- [Technological Educational Institute of Kavala](#)

## TIMELINE

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	

## SKILLS & KPIs

Creativity ■■■■■■	Leadership ■■■■■■	Team Work ■■■■■■	Journals & Conf. ~80
Efficiency ■■■■■■	Communication ■■■■■■	Troubleshooting ■■■■■■	Citations ~512
Planning ■■■■■■	Strategy ■■■■■■	Organization ■■■■■■	Patents 3

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## STUDIES

- February 2008 Ph.D., Dissertation: 'Development of Exploratory Learning Environments', Democritus University of Thrace (DUTH), School of Education Sciences, Alexandroupolis, Greece
- September 2003 M.Sc. in Computer Science, Thesis: 'Design and Implementation of Digital Image Filters', New York Institute of Technology (NYIT), New York, USA
- November 1999 Diploma in Electrical & Computer Engineering, Democritus University of Thrace (DUTH), Polytechnic School of Xanthi, Greece

## RESEARCH AND DEVELOPMENT (R&D) POSITIONS

- 2012-2022: Postdoctoral Researcher, Information Technologies Institute (Visual Analytics, Virtual & Augmented Reality Laboratory), Centre for Research & Technology Hellas ([ITI/CERTH](#)), Themi, Thessaloniki, Greece
- 2011-2015: Scientific Personnel, Computer Technology Institute and Press 'Diophantus' ([CTI](#)), Rion, University Campus of Patras, Greece
- 2008-2009: Research Assistant in [Research Committee](#) of the Eastern Macedonia and Thrace Institute of Technology (former Technological Educational Institute of Kavala)

## ACADEMIC POSITIONS

- 2022-present: Assistant Professor in International Hellenic University, [Department of Accounting and Finance](#), School of Economics & Business Administration, Kavala, Greece
- 2017-present: Adjunct Faculty member (teaching), Hellenic Open University ([EAP](#)), School of Science and Technology, [Faculty of Informatics](#), Patra, Greece
- 2009-2011, 2012-2014: Adjunct Faculty member, Higher School of Pedagogical and Technological Education ([ASPETE](#)), Thessaloniki, Greece
- 2011-2012 (Winter Semester): Adjunct Lecturer, University of Western Macedonia, Department of Engineering Informatics and Telecommunications ([ICTE/UoWM](#)), Kozani, Greece
- 2008-2011: Adjunct Assistant Professor, Alexander Technological Educational Institute of Thessaloniki, Department of Informatics ([IT/TEIThe](#)), Thessaloniki, Greece
- 2008-2010: Adjunct Lecturer, Democritus University of Thrace, Department of Primary Level Education ([DUTH/DPLE](#)), Alexandroupolis, Greece
- 2009-2010 (Spring Semester): Teacher Educator, Didaskaleio Theodoros Kastanos'of Democritus University of Thrace ([Didaskaleio DUTH](#)), Alexandroupolis, Greece
- 2005-2008: Adjunct Lecturer, Eastern Macedonia and Thrace Institute of Technology (former Technological Educational Institute of Kavala), Department of Landscape Architecture ([LA/TEIKAV](#)), and Department of Forestry & Natural Environment Management ([DFNEM/TEIKAV](#)), Drama, Greece

## OTHER ACADEMIC-ADMINISTRATIVE ACTIVITIES

- 2008-2011 & 2021: Undergraduate Thesis supervision of Bachelor students

2011-2012 (*Winter Semester*): IEEE Student Branch Counsellor, University of Western Macedonia (IEEE SB IoWM), Kozani, Greece

2008: Official update of the Computer Graphics course of the Department of Informatics, TEI of Thessaloniki, mainly with updates in GPU programming and videogames development using Game Engines

2006-2007: Member of the Internal Evaluation Committee of Landscape Architecture Department, TEI of Kavala (evaluation of teaching & administrative personnel)

2005: Official update of Computer Aided Design course, TEI of Kavala, Department of Landscape Architecture, mainly on 3D Modelling and photorealistic rendering

## INDUSTRIAL EXPERIENCE

2001-2002 & 2004-2012: Self-employed in software and Web development (3D graphics, educational multimedia applications), technical advisory and safety engineering services

October 2003-April 2004: Engineer in the Public Gas Company of Thessaloniki with professional obligations in network expansion, technical inspections and validation of home and industrial works

April 2000-November 2001: Compulsory military service as an electrical engineer in Greek Military Air Force (NATO Radar Stations) in the rank of Sergeant

## RESEARCH ACTIVITIES OVERVIEW

### A. POSTDOCTORAL RESEARCH

After the completion of my PhD, I continued work on Human-Computer Interaction (HCI), Serious Games & Gamification, Virtual/Augmented Reality and multimedia applications. Especially during my postdoc research (performed) carried out in the *Visual Analytics, Virtual & Augmented Reality Laboratory* of CERTH/ITI ([www.iti.gr](http://www.iti.gr)), I had the chance to undertake responsibilities related to software and content design/development, authoring of technical documentation (deliverables), project management and proposals preparation (H2020 & National calls). In addition, as member of the scientific personnel of CTI ([www.cti.gr](http://www.cti.gr)), I was involved in interactive multimedia content development (Learning Objects), and educational games design/development.

### B. PhD RESEARCH

My PhD research concerned the development of Exploratory Learning Environments and more specifically the design, implementation and evaluation of edutainment applications for elementary school students. Virtual Reality applications (virtual 3D museums) and educational videogames for PC and mobile devices (PDAs at that time) were the cornerstone elements of this effort. Along with my Dissertation, nine more publications resulted from this effort.

### C. POSTGRADUATE RESEARCH

During my postgraduate studies in Computer Science department of the New York Institute of Technology (NYIT), I participated in students' projects related to Operating Systems, Networks and Digital Image Processing (DIP). Two postgraduate Thesis projects were completed in DIP. Moreover, one journal publication was achieved based on my postgraduate research.

## D. UNDERGRADUATE ACTIVITIES

During my undergraduate studies, I was involved in student projects related to digital image processing, image databases and multimedia applications. My undergraduate work was completed with two publications -as a co-author -with my Thesis supervisor.

## RESEARCH & DEVELOPMENT (R&D) PROJECTS

### A. SPONSORED BY EUROPEAN COMMISSION (H2020, FP7)

01/05/2021-31/01/2022: *'nloVe — A Novel Adaptive Cybersecurity Framework for the Internet-of-Vehicles'* (2019: H2020-SU-ICT-01-2018, IA, <https://www.niove.eu>). Started as a project proposal co-author, I participated in nloVe as an experienced post-doc (senior) researcher in user/system requirements elicitation and overall architecture design. Deliverables: D6.8: Adaptive Graphical user Interfaces.

01/01/2019-31/01/2022: *'Ageing@Work — Smart, Personalized and Adaptive ICT Solutions for Active, Healthy and Productive Ageing with enhanced Workability'* (2019: H2020-SC1-DTH-2018-1, RIA, <https://ageingatwork-project.eu>). I participated as an experienced post-doc (senior) researcher in user/system requirements elicitation, Virtual User Models (VUM) development, design of a platform to deliver training, workability and safety interventions to elderly workers, design of a Life Long Learning (LLL) component, a gamification component and a Knowledgebase. Deliverables: [D2.3. Ageing@Work System Architecture](#), [D2.2. Supportive, motivating and persuasive approaches, tools & metrics](#), [D3.1. Human factors and metrics analysis](#), D5.1. Ageing@Work Mirroring Avatar and Ageing Worker Dashboard, D9.5. Data Management Plan.

01/05/2020-30/06/2020: *'EASY TV — Easing the access of Europeans with disabilities to converging media and content (2017: H2020-ICT-19-2016-2)'* (2020: H2020-ICT-19-2016-2, IA, <https://easytvproject.eu>). As an experienced post-doc (senior) researcher in CERTH I currently help the project team to close open issues (mostly related to integration, evaluation and dissemination) and to successfully complete the final review process. Deliverables: D7.5. Final Report on Dissemination Activities.

01/03/2016-30/04/2019: *'CaregiversPro-MMD — Self-management interventions and mutual assistance community services, helping patients with dementia and caregivers connect with others for evaluation, support and inspiration to improve the care experience'* (2016: H2020 - PHC - 2015 - RIA, <http://caregiversprommd-project.eu>), participation in all technical and managerial WPs as a senior researcher in CERTH/ITI (technical coordinator), including the design of a platform to deliver education on self-symptoms management, and social support to People Living with Dementia (PLwD) and their caregivers. This included the design of interactive non-pharmacological interventions like online games for brain-fit and memory training. Deliverables: [D5.1. Evaluating the CAREGIVERS-PRO platform for supporting people with memory problems and caregivers: A usability study](#), [D2.1. PACT Analysis and Focus Group Reports](#), [D2.2. Customisation guidance document for CAREGIVERSPRO-MMD platform 1st version](#), [D1.5. Customisation guidance document for CAREGIVERSPRO-MMD platform – Screening and Interventions services](#), [D7.7. Data Management Plan](#), D2.3. Customization guidance document for CAREGIVERSPRO-MMD platform 2<sup>nd</sup> version.

01/10/2015-30/06/2017: *'IN LIFE — INdependent Living support Functions for the Elderly'* (2015: H2020 - RIA, <http://www.inlife-project.eu>), participation in tasks related to user needs and use cases definition, design of the system architecture of a cloud-based system and the development of a neuropsychological assessment tools (MCI screening Batteries) as postdoctoral researcher in CERTH/ITI. Deliverables: D2.1: System architecture and tools (restricted).

01/11/2015-30/06/2017: *'MyAirCoach — Analysis, modelling and sensing of both physiological and environmental factors for the customized and predictive self-management of Asthma'*, (2015: H2020 - RIA,

<http://www.myaircoach.eu>), participation in the design of a Decision Support System (DSS), an Integration and Personalised Guidance System and the dissemination and exploitation activities as postdoctoral researcher in CERTH/ITI. Deliverables: D5.3. MyAirCoach mHealth Integrated Version, [D7.6. Data Management Plan \(first version\)](#), [D7.6 Data Management Plan \(second version\)](#).

01/07/2014-31/10/2015: ‘NEMESYS — Enhanced Network Security for Seamless Service Provisioning in the Smart Mobile Ecosystem’ (2012: FP7 ICT - STREP, <http://www.nemesys-project.eu>), participation in tasks related to cybersecurity for mobile devices, the development of use-case scenarios, validation and dissemination of the solution as postdoctoral researcher in CERTH/ITI. Deliverables: [D8.4. Business Development Model](#), [D5.3.2. Attack Attribution Module](#).

01/01/2014-31/10/2014: ‘Adapt4EE — Occupant Aware, Intelligent and Adaptive Enterprises’, (2011: FP7 - ICT - STREP, <http://adapt4ee.eu>), participation in technical tasks like Image Based Occupancy Modeling, integration and Simulation Model Training & Evaluation as a postdoctoral researcher in CERTH/ITI. Deliverables: [D7.4. Adapt4EE Evaluation Report](#), [D6.3. Adapt4EE System Test Report](#).

01/02/2012-31/12/2013: ‘VERITAS — Virtual and Augmented Environments and Realistic User Interactions To achieve Embedded Accessibility Designs’ (2010: FP7 - ICT – IP, <https://varlab.iti.gr/demos/veritas>), participation as a postdoctoral researcher in CERTH/ITI with duties related to the design, development and testing of a toolset (simulator) for evaluating accessibility of ergonomic industrial designs for people with visual, acoustic and motor impairments. Moreover, I participated in the user’s training (workshops) and the development of Virtual User Models (VUMS). Deliverables: D2.8.3. Testing and Validation –Refinement of the interface tool set, D4.3.1. Dissemination plans and materials plus leaflets and posters, D2.8.2. Integration of Multimodal Interfaces into the VERITAS Simulation and Testing Framework.

## B. NATIONAL R&D PROGRAMS

01/11/2021-today: ‘Hellenic Academic e-Books’ (<https://www.kallipos.gr/en/>), co-funded by the Greek National Strategic Reference Framework (ESPA) and the EU, project manager: Prof. N. Mitrou. Multiple personal appointments as:

1. Technical editor in the authoring team of Emeritus Prof. E. Dris, (Gr) ‘Analytical Dynamics’ (Αναλυτική Δυναμική), available at: <https://repository.kallipos.gr/handle/11419/8018>
2. Co-author and technical editor in the authoring team of Assist. Prof. A. Xenakis (Gr) ‘Modern Wired and Wireless Network Communications with Emphasis on 5G Applications: A practical approach’ (In Greek: Σύγχρονα Ενσύρματα και Ασύρματα Δίκτυα Επικοινωνιών με Έμφαση σε 5G Εφαρμογές: Μια πρακτική προσέγγιση).

01/07/2020 – 31/01/2022: ‘e-XNHLATHS – Intelligent Spatio-temporal Integration of Environmental, Cultural and Touristic Routes’ (<https://e-xnilatis.gr/en/home-en/>), co-funded by the Greek National Strategic Reference Framework (ESPA 2014-2020) and the EU. My main contribution is on technical management of the project, and the design of Virtual Reality and Augmented Reality applications for the museums supervised by the Piraeus Bank Group Cultural Foundation (PIOP) and the personalization of the user experience on cartographic mobile applications for touristic promotion of Points-of-Interest (POIs) along ‘Egnatia Odos’ Highway in Northern Greece. Deliverables: D2.7 PublicationsX4, D3.2.1. Online integration platform with user feedback system and mobile applications.

07/05/2021 - 23/07/2021: ‘Accelerated teacher training in the implementation of distance education: a holistic approach (in Greek: Ταχύρρυθμη επιμόρφωση εκπαιδευτικών στην εφαρμογή της εξ αποστάσεως εκπαίδευσης (ολιστική προσέγγιση)’, co-financed by Greece and the European Union, <https://t4e.sch.gr>,



Research Committee of Aristoteles University of Thessaloniki (<https://www.rc.auth.gr>), scientific responsible: Prof. Dimitriadis Stavros.

01/10/2014-31/12/2015: 'Hellenic Academic e-Books' (<https://www.kallipos.gr/en/>), co-funded by the Greek National Strategic Reference Framework (ESPA) and the EU, project manager: Prof. N. Mitrou. Multiple personal appointments as:

1. Co-author and technical editor in the authoring team of Assoc. Prof. K. Moustakas, (Gr) '[Computer Graphics and Virtual Reality](#)', ISBN: 978-960-603-255-4, proposed as official textbook by: Aristotle's University of Thessaloniki (Department of Informatics [\[↗\]](#)), Pireaus University of Applied Services (Department of Computer Engineering [\[↗\]](#) and Department of Computer Systems Engineering [\[↗\]](#)), University of Patras (Electrical Engineering and Computer Technology [\[↗\]](#)) and University of the Aegean (Department of Cultural Technology and Communication [\[↗\]](#)).
2. Technical editor in the author team of Prof. V. Anastasiadou, (Gr) '[Comprehensive Dental Care for the Elderly](#)', ISBN: 978-960-603-244-8
3. Technical editor in the author team of Assoc. Prof. H. Kotsiomi, (Gr) '[Prosthodontic Rehabilitation with Removable Partial Dentures: Diagnosis, Treatment Planning, Construction Procedures, Follow-up](#)', ISBN: 978-960-603-243-1
4. Technical editor in the author team of Prof. G. Theodoridis, (Gr) '[Bioanalysis](#)', ISBN: 978-960-603-052-9

01/02/2011-31/08/2015: 'Digital School Platform, Interactive Books, and Learning Object Repository' (<http://ebooks.edu.gr>), co-funded by the Greek National Strategic Reference Framework (ESPA) and the EU. My area of responsibility was the design and authoring of original interactive learning objects, educational games, videos and media-enhanced school eBooks as scientific personnel of the [Computer Technology Institute and Press "Diophantus"](#) (Former EAITY). eBooks: Visual Arts in Elementary School ([A&B Class](#), [C&D Class](#), [E&F Class](#)), Visual Arts in Gymnasium ([A Class](#), [B Class](#), [C Class](#)), Music in Elementary School ([C&D Class](#), [E Class](#), [F Class](#)), Music in Gymnasium ([A Class](#), [B Class](#), [C Class](#)) and Theatre Education ([E&F Class](#)).

23/03/2011-31/08/2015: 'Photodentro - National Digital Repository of Learning Objects for Elementary and Secondary Education' (<http://photodentro.edu.gr/jspui>), co-funded by the Greek National Strategic Reference Framework (ESPA) and EU. My areas of responsibility were the collection, classification and metadata authoring of learning materials (interactive educational apps & games) from heterogeneous collections (from past national projects, the web and own material), evaluation based on current educational and technological standards and content management on the site of the Greek National Aggregator, as a scientific assistant of the [Computer Technology Institute and Press "Diophantus"](#) (Former EAITY). This project was part of the wider 'Digital School' (<http://dschool.edu.gr>) project of the Ministry of Education.

01/06/2008-31/08/2009: 'Development of an Interactive Web Application for Greek Flora Knowledge Base', funded by the [Special Account for Research Grants-TEI of Kavala](#), as a research assistant on the design, implementation, and evaluation of a wiki-like multimedia database on flora to support professors and university students in their teaching and learning activities (educational infrastructure).

### C. SPONSORED BY PRIVATE FUNDS

01/04/2019-31/07/2019: 'EHQ181003\_0004', a project funded by a big multinational industry related to Artificial Intelligence in energy consumption simulations (more info is restricted in public domain). Participation as a project manager and system architect (subcontractor in cooperation with CERTH/ITI).

23/01/2013-23/01/2014: *'StereoWEB: a new method for stereoscopic online web content creation and rendering'*, a project funded by the private company *Equldo Limited*, Limassol, Cyprus in which I participated as the project coordinator and system architect, under the supervision of the funder & CEO (Mr. Dimitrios Andriotis).

## ACTIVE ENROLMENT IN CONFERENCE COMMITTEES

- Member of the Organizing Committee "Epistemology of STEM", Hellenic Education Society of S.T.E.M., online conference, 05/12/2020
- Chairman in the 8th International Conference on Virtual Worlds and Games for Serious Applications (VS-GAMES 2016), Barcelona, Spain, 07-09/09/2016
- Organizer of the workshop *'Design and Construction of Printed Circuit Boards'*, IEEE Student Branch of University of Western Macedonia, Kozani, Greece, 07/12/2011
- Chairman in the International Conference on Signal Processing and Multimedia Applications (SIGMAP 2010), Athens, Greece, 26-28/07/2010
- Organizer of the student seminar entitled 'Current Trends in Geographical Information Systems - GIS', Department of Informatics, Alexander Educational Institute of Thessaloniki, 03/04/2009
- Member of the organizing committee of the 2<sup>nd</sup> International Conference on Computers, Communications & Control, IEEE & AGORA University, Oradea, Romania, 15-17/05/2008
- President of the Organizing Committee of the *'International Conference in Landscape Architecture and New Technologies-LANT07'*, Department of Landscape Architecture, TEI of Kavala, Drama, Greece, 25-26/05/2007

## MEMBERSHIPS IN SCIENTIFIC ORGANIZATIONS & SOCIETIES

- Hellenic Education Society of S.T.E.M. ([E3STEM](#)), Vice-President from January 2021
- Institute of Electrical and Electronics Engineers ([IEEE](#)), member ID: 92116291
- Hellenic Game Developers Association - HGDA (<http://www.corallia.org>)
- Technical Chamber of Greece ([web.tee.gr](http://web.tee.gr))
- National Centre for Vocational Education as adult educator (ΕΚΕΠΙΣ), member id: EA19223
- Member of the Licensed Reviewers Committee for the evaluation of national research projects (<https://registry.gsrt.gr>)

## INVITED SPEECHES

1. [Paliokas I.](#), [Votis K.](#) (2017). 'European Funding Opportunities', 9 OTS Forum, Mediterranean Village, Katerini, Greece, 16-18/11/2017 ([video](#))
12. [Plakogiannaki E.](#), [Paliokas I.](#) (2014): *'Social Media & Communication in Education'*, Workshop of Hellenic College of Thessaloniki, Thessaloniki, Greece, 21/01/2014 ([news](#))
13. [Paliokas I.](#) (2013). *'Graphics for Video Games'*, Xinis Education Festival, Thessaloniki, Greece, 24/05/2013 ([video](#))



14. Paliokas I. (2011). '*Videogames II: Programming & Modeling*', IEEE Student Branch ATEI of Thessaloniki, 6/4/2011 ([news](#))
15. Paliokas I. (2011). '*Introduction to Computer Game Programming*', Department of Informatics and Telecommunications, University of Athens, 21/1/2011, (<http://www.openscience.gr/node/825>)
16. Paliokas I. (2010). '*Videogames I: The Industry, the Art and the Technique*', IEEE Student Branch ATEI of Thessaloniki, 24/11/2010
17. Paliokas I. (2008). '*Currents Trends in Graphics Systems and Videogames*' (In Greek: 'Σύγχρονα Συστήματα Απόδοσης Γραφικών και Βιντεοπαιχνίδια), Center of Environmental Education of Konitsa, Epirus, 22/12/2008

## REVIEWER IN SCIENTIFIC JOURNALS/CONFERENCES

### A. JOURNALS

- Electronics, MDPI, 2021
- Applied Sciences, MDPI, 2021
- Education and Sciences, University of Thessaly, 2021
- Computers & Education, Elsevier, 2010, 2019, 2020
- International Journal of Environmental Research and Public Health, MDPI, 2020
- Sustainability, MDPI, 2020
- Computers & Graphics, 2020
- Computers in Human Behaviour, Elsevier, 2016, 2017, 2018, 2020
- OBM Geriatrics, Lidsen Publishing Inc., 2019, 2020
- PLOS ONE, PLOS, 2020
- International Journal of Cognition and Behaviour, ClinMed, 2020
- Archives of Zoological Studies, Herald, 2020
- International Journal of Cognition and Behaviour, ClinMed, 2020
- Sustainability, Multidisciplinary Digital Publishing Institute (MDPI), 2020
- Hellenic Journal of STEM Education, 2020, 2021
- Heliyon, Elsevier, 2019
- Museum and Society, University of Leicester, 2019
- Personal and Ubiquitous Computing, Springer, 2019
- Journal of Computing in Higher Education, Springer, 2016, 2017, 2018, 2019
- Consumer Electronics Magazine, IEEE, 2018
- Innovation in Technologies for Educational Computing, IEEE, 2017
- Virtual Reality, Springer, 2017

- International Journal of Computational Methods in Heritage Science (IJCMHS), IGI Global, 2016
- Transitions in Emerging Topics in Computing (TETC), IEEE Computer Society, 2015
- Contemporary issues in Education (editor: Dr. Evi Makri Mpotsari), 2009
- The International Journal of Technology, Knowledge & Society, Common Ground, 2008
- The International Journal of the Inclusive Museum, Common Ground, 2008

## B. CONFERENCES

- 15<sup>th</sup> Int. Conf. on Internet and Web Applications and Services (ICIW 2020), [2020](#)
- IEEE Conference on Games (CoG), 2020
- Int. Conf. on Signal Processing and Multimedia Applications (SIGMAP), [2011](#), [2012](#), [2015](#), [2016](#), [2017](#), [2018](#), [2019](#)
- Int. Conf. on Strategic Innovative Marketing and Tourism (ICSIMAT), [2019](#)
- SAC2019 (34th ACM/SIGAPP Symposium on Applied Computing), ACM, 2019
- Int. Conf. on Virtual Worlds and Games for Serious Applications (VS-GAMES), [2015](#), 2016, [2017](#)
- Serious Games and Social Connect Conf., Serious Games Association, Singapore, 2012
- IEEE Transactions on Emerging Topics in Computing (TETC), 2015
- Int. Multiconference on Engineering and Technological Innovation (IMETI), 2010, 2012, [2018](#)
- IEEE International Conference on Bioinformatics and Biomedicine (BIBM), 2017
- The 9<sup>th</sup> Conf. Of Scientific Association of Primary School Teachers for the Dissemination of ICT in Education (EEEP-DTPE): Education in the ICT Era, 2012
- The 10th Int. Conf. on Computing, Communications and Control Technologies (CCCT), Orlando, Florida, 2011, 2012.
- Int. Conf. On Information and Communication Technologies in agriculture, Food and Environment (HAICTA), [2011](#), [2017](#)

## PUBLICATIONS

### A. DISSERTATIONS

2004-2008: PhD Dissertation entitled '*Design of Exploratory Learning Environments*', Democritus University of Thrace, Department of Elementary Education (Grade: Excellent-with Honors). Supervisor: Prof. G. Kekkeris.

2002-2003: Postgraduate Thesis entitled '*Design and Implementation of Digital Image Filters*'. Supervisor: Prof. A. Jafari, Chairman of Electrical & Computer Engineering Department.

### B. BOOK CHAPTERS

- B1. Moustakas K., [Paliokas I.](#), Tsakiris A. & Tzovaras D. (2015). *Computer Graphics and Virtual Reality* (in Greek), Hellenic Academic eBooks 'Kallipos', ISBN: 978-960-603-255-4 (author of chapters: 2-Design, 3-3D objects modelling & rendering, 5-Color & Texture, 9-Virtual Reality, Annex).

- B2. Segkouli S., Paliokas I., Tsakiris T., Tsolaki M., Votis K. & Tzouvaras D. (2015). *Enabling Accessibility Features in Enhanced VR Environments for Supporting Spatial Abilities and Social Interaction in Elderly and MCI Patients*, Handbook of Research on Innovations in the Diagnosis and Treatment of Dementia, Editor(s): Bamidis D. et al., Ch.8, IGI Global Topic Selections, pp. 147-162.
- B3. Paliokas I., Arapidis Ch. & Mpimpitsos M. (2013). *Game Based Early Programming Education: The More You Play, the More You Learn*. In Z. Pan et al. (Eds.), Transactions on Edutainment IX, LNCS 7544, Springer-Verlag, pp. 115–131, doi: 10.1007/978-3-642-37042-7\_7.
- B4. Paliokas I. (2010). *Communicational Dynamics in Computer Labs: A Route to Creativity* (in Greek), Special Issues of ICT in Education, (ed.) Kekkeris G., Papazisis Publ., pp. 11-30.

### C. SCIENTIFIC JOURNALS (PEER REVIEWED)

- J1. Zakopoulou V., Tzimourta K.D., Ntritsos G., Tzallas A.T., Tspouras M.G., Astrakas L.G., Christodoulides P., Paliokas I., Zakopoulos V., Giannakeas N. (2021). Towards Correct and Safe Diagnosis of Specific Learning Disorder in Preschool Age. The perspective of Early Multi-collector Diagnostic Approaches: A Pilot Study. *Acta Scientific Neurology*, 4(6), pp. 53-69, doi: 10.31080/ASNE.2021.04.0365.
- J2. Paliokas I. (2021). Towards Gamified Mixed Reality Applications in STEM Education, *HJSTEM*, 2(1).
- J3. Paliokas I., Tzallas A., Kalafatakis K., Giannakeas N. (2021). First Impression of Greek University Students on Taking Massive e-Exams due to COVID-19 Pandemic. *Biology, Engineering, Medicine and Science Reports (BEMS Reports)*, 7(1), pp. 11-12, doi: 10.5530/bems.7.1.5.
- J4. Paliokas I., Patenidis A.T., Mitsopoulou E.E., Tsita C., Pehlivanides G., Karyati E. et al. (2020). A Gamified Augmented Reality Application for Digital Heritage and Tourism. *Applied Sciences*, 10(21), 7868, doi: 10.3390/app10217868.
- J5. Iliadou P., Paliokas I., Zygouris S., Laxaroy E., Votis K., Tzouvaras D., Tsolaki M. (2020). A Comparison of Traditional and Serious Game-based Digital Markers of Cognition in Older Adults with Mild Cognitive Impairment and Healthy Controls. *Journal of Alzheimer's Disease* (accepted for publication).
- J6. Paliokas I., Kalamaras E., Votis K., Doumpoulakis S., Lakka E., Kotsani M. et al. (2020). Using a Virtual Reality Serious Game to Assess the Performance of Older Adults with Frailty. In Vlamos P. (Eds.), *Advances in Experimental Medicine and Biology*, vol. 1196, pp. 127-139, doi: 10.1007/978-3-030-32637-1\_13.
- J7. Paliokas I. (2019). Serious Games Classification for Digital Heritage. *International Journal of Computational Methods in Heritage Science (IJCMHS)*, 3(2), pp. 58-72, doi: 10.4018/IJCMHS.2019070104.
- J8. Paliokas I., Tsoniotis N., Votis K. & Tzouvaras D. (2019). A Blockchain Platform in Connected Medical-Device Environments: Trustworthy technology to guard against cyberthreats. *IEEE Consumer Electronics Magazine*, 8(4), pp. 50-55, doi: 10.1109/MCE.2019.2905516.
- J9. Lithoxidou E., Doumpoulakis S., Tsakiris A., Ziogou C., Krinidis S., Paliokas I. et al. (2019). A Novel Social Gamified Collaboration Platform Enriched with Shop-floor Data and Feedback for the Improvement of the Productivity, Safety and Engagement in Factories. *Computers & Industrial Engineering*, doi: 10.1016/j.cie.2019.02.005.
- J10. Tzimourta K.D., Astrakas L.G., Gianni A.M., Tzallas A.T., Giannakeas N., Paliokas I. et al. (2018). Evaluation of Window Size in Classification of Epileptic Short-Term EEG Signals Using a Brain Computer Interface Software. *Engineering, Technology & Applied Science Research*, 8(4), pp. 3093-3097. doi: 10.5281/zenodo.1450534.

- J11. Zafeiridi P., Paulson K., Dunn R., E. Wolverson, White C., Thorpe J. A., Antomarini M., Cesaroni F., Scocchera F., Landrin-Dutot I., Malherbe L., Lingiah H., Bérard M., Gironès X., Quintana M., Cortés U., Barrué C., Cortés A., Paliokas I., Votis K. & Tzovaras D. (2018). A Web-Based Platform for People with Memory Problems and Their Caregivers (CAREGIVERSPRO-MMD): Mixed-Methods Evaluation of Usability. *JMIR Formative Research*, 2(1): e4. doi:10.2196/formative.9083.
- J12. Segkouli S., Paliokas I., Tzovaras D., Lazarou I., Karagiannidis C., Vlachos F. & Tsolaki M. (2017). A Computerized Test for the Assessment of Mild Cognitive Impairment Subtypes in Sentence Processing. *Aging, Neuropsychology and Cognition*, 24(6), doi: 10.1080/13825585.2017.1377679.
- J13. Segkouli S., Paliokas I., Tzovaras D., Karagiannidis C. & Tsolaki M. (2017). Media Enhanced Educational and Training Interventions for People at Risk of Alzheimer’s Disease. *Hell J Nucl Med Suppl*, 20(2), pp. 104-111.
- J14. Segkouli S., Paliokas I., Tzovaras D., Karagiannidis C. & Tsolaki M. (2017). Language Performance: an Indicative Marker for Subtle Changes in MCI subtypes. *Hell J Nucl Med Suppl*, 20(2), pp. 131-139.
- J15. Sylaiou S., Mania K., Paliokas I., Pujol-Tost L., Killintzis V. & Liarokapis F. (2017). Exploring the Educational Impact of Diverse Technologies in Online Virtual Museums. *Int. J. of Arts and Technology*, 10(1), pp. 58-84, doi: 10.1504/IJART.2017.10004738.
- J16. Segkouli S., Paliokas I., Tzovaras D., Tsakiris T., Tsolaki M. & Karagiannidis C. (2015). Novel Virtual User Models of Mild Cognitive Impairment for Simulating Dementia. *Computational and Mathematical Methods in Medicine*, article ID 358638, doi: 10.1155/2015/358638.
- J17. Tsakiris A., Moschonas P., Kaklanis N., Paliokas I., Stavropoulos G., Segouli S. & Tzovaras D. (2014). A Novel Accessibility Assessment Framework of GUI Using Cognitive Disability Simulation. *Technology & Disability*, 26(2-3), pp. 117-126. doi: 10.3233/TAD-140411.
- J18. Paliokas I. (2011). Towards Massively Multistudent Online Cloud Learning Environments (MMOCLE). *Univ. Spiru Haret Series of Mathematics-Informatics*, 7(1), pp. 11-20.
- J19. Iakovidis G., Paliokas I. & Paschos B. (2010). 10 Years Bolonia: Training of Teachers of VET (Vocational Education and Training) in the Unified Higher Education (in Greek). *Contemporary Issues in Education*, 2, pp. 231-224.
- J20. Paliokas I. & Kekkeris G. (2010). Investigation of the Attitudes & Believes of Vocational Training Students with Respect to Virtual Reality Applications (In Greek). *Contemporary Issues in Education*, 1, pp. 138-154.
- J21. Paliokas I. (2009). Can Teachers Design Educational Comics? (In Greek). *Kinitro Journal*, 10, pp. 149-164.
- J22. Konstandinou M., Paliokas I., Iakovoglou V., Sarikou S., Xhatziphilippidis G. & Eleftheriadis N. (2009). A Web-Enabled Interactive Application for the Development of Knowledge Base on Greek Flora. *Botanica Serbika*, 33(2), pp. 131-136.
- J23. Paliokas I. (2009). Reinforcing Metacognition in CAD Education using Videotutorials. *Journal of Computer Aided Design and Applications*, 6(5), pp. 613-623. doi: 10.3722/cadaps.2009.613-623.
- J24. Paliokas I., Lambadas A., Tseggelidis F., Papadopoulou D. & Styliadis AD. (2008). E-Learning CAAD with Virtual Reality and Landscape Architecture Rendering Functionality. *RedCAD-Journal of Geodesy and Cadastre*, 8, pp. 75-88.
- J25. Paliokas I. & Kekkeris G. (2008). Implementation of Virtual Museums for School Use. *International Journal of the Inclusive Museum*, 1(1), pp. 11-20. doi: 10.18848/1835-2014/CGP/v01i01/44514.

- J26. Paliokas I., Kekkeris G. & Georgiadou K. (2008). Study of Users' behaviour in Virtual Reality Environments. *International Journal of Technology, Knowledge and Society*, 4, pp. 121-132. doi: 10.18848/1832-3669/CGP/v04i01/55814.
- J27. Paliokas I. & Kekkeris G. (2008). Teaching ICT through Theatrical (drama) Activities (In Greek). *Education & New Technologies*, 6, pp. 49-61.
- J28. Paliokas I. (2008). The Use of Simulators in Technical Education: a Case Study. *Learning Technology-IEEE Computer Society's Technical Committee on Learning Technology (TCLT)*, 10(3), pp. 13-19.
- J29. Paliokas I. & Kekkeris G. (2007). Educational Microworlds: Factors that Influence Success or Failure, Problems from their Everyday Use (In Greek). *Kinitro Journal*, 8, pp. 7-18.
- J30. Paliokas I. & Kekkeris G. (2007). A Creative Approach on Scriptwriting Educational Virtual Reality Learning Environments (In Greek). *Education & New Technologies*, 5, pp. 49-61.
- J31. Steiakakis E. & Paliokas I. (2007). The Digital Divide and the National Digital Strategy 2006-2013: An Empirical Investigation (In Greek). *Review of Business Management Academy*, 4(3-4), pp. 59-72.
- J32. Paliokas I., Kekkeris G. & Karakos A. (2000). Artshow: An Efficient Digital Image Database. *Information Services and Use*, IOS Press, Amsterdam, 20(4), pp. 161-167.

#### D. SCIENTIFIC CONFERENCES WITH PROCEEDINGS (PEER REVIEWED)

- C1. Paliokas I., Manganopoulou E., Mylonas T., Papazidis G., Votis K., Tzouvaras D. (2022). *Consumer Beliefs and Attitudes toward Digital Wallets: A Case Study in Greece*. In: 14<sup>th</sup> International Conference Economies of the Balkan and Eastern European Countries (EBEEC 2022), Milan, Italy, p. 38 (presenter).
- C2. Paliokas I., Mitsopoulou E.E., Patenidis A.T., Stathopoulos E.A., Kokkalas A., Diplaris S., Karyati E., Tsafaras S., Tasiopoulou E., Riggas C., Meditskos G., Vrochidis S., Votis K., Kompatsiaris I. & Tzouvaras D., (2021). *Implementation of an Interactive Crowd-Enhanced Content Management System for Tourism Development in Economies of the Balkan and Eastern European Countries*. In: 13<sup>th</sup> International Conference Economies of the Balkan and Eastern European Countries (EBEEC 2021), Kavala, Greece, KnowledgeE Social Sciences publ., pp. 1–9 (presenter).
- C3. Mastoras R.E., Triantafyllidis A., Giakoumis D., Kordonias R.K., Papaprodromou A., Nalbadis F., Segkouli S., Lithoxoidou E.E., Georgiadis C., Paliokas I., Votis K. & Tzouvaras D. (2021). *A Mobile-based Multimodal Framework for Pervasive Health Monitoring*. In: 2021 IEEE International Conference on Pervasive Computing and Communications Workshops and other Affiliated Events (PerCom), Kassel, Germany, doi: 10.1109/PerComWorkshops51409.2021.9430967.
- C4. Psycharis S., Kalovrektis K., Xenakis A., Paliokas I., Patrinoopoulos M., Georkakakis P., Iatrou P., Theodorou P., Papageorgiou T. & Ntourou V. (2021). *The Impact of Physical Computing and Computational Pedagogy on Girls' Self-Efficacy and Computational Thinking Practice*. In: IEEE Global Engineering Education Conference Women in Engineering (EDUCON 2021), Vienna, Austria (to appear).
- C5. Stathopoulos E.A., Kokkalas A., Mitsopoulou E.E., Patenidis A.T., Meditskos G., Diplaris S., Paliokas I., Vrochidis S., Votis K., Tzouvaras D. & Kompatsiaris I. (2020). *Knowledge-based Management and Reasoning on Cultural and Natural Touristic Routes*. In: International Conference on Artificial Intelligence Applications and Innovations (AIAI2020), Chalkidiki, Greece, pp. 355-367, doi: 10.1007/978-3-030-49161-1\_30.
- C6. Zacharaki A., Paliokas I., Votis K., Alexakos C., Sepranos D. & Tzouvaras D. (2019). *Complex Engineering Systems as an enabler for security in Internet of Vehicles: The nIoVe approach*. In: First International Conference on Societal Automation (SA2019), Krakow, Poland, pp. 1-8, doi: 10.1109/SA47457.2019.8938044.

- C7. Giakoumis D., Votis K., Altsitsiadis E., Segkouli S., Paliokas I. & Tzouvaras D. (2019). *Smart, Personalized and Adaptive ICT Solutions for Active, Healthy and Productive Ageing with enhanced Workability*. In: PETRA 2019, Rhodes, Greece, pp. 442-447, doi: 10.1145/3316782.3322767.
- C8. Stathopoulos E., Paliokas I., Meditskos G., Diplaris S., Pehlivanides G., Tsafaras S., Valkouma E., Pehlivanides G., Riggas C., Vrochidis S., Votis K., Tzouvaras D. & Kompatsiaris I. (2019). *Smart Discovery of Cultural and Natural Tourist Routes*. In: Social Innovation and Web Intelligence (SIWEB), part of Web Intelligence 2019, Thessaloniki, Greece, pp. 208-214, doi: 10.1145/3358695.3361105.
- C9. Paliokas I. & Sylaiou S. (2018). *A Classification Model for Serious Games used in Museums, Galleries and other Cultural Sites*. In: International Conference on Strategic Innovative Marketing and Tourism (ICSIMAT), Springer Proceedings in Business and Economics, Athens, Greece, pp. 1057-1064, doi: 10.1007/978-3-030-12453-3\_122 (presenter).
- C10. Paliokas I., Sylaiou S., Katertsidis N., Tsakai O., Tzallas A.T., Giannakeas N., Tsiouras M., Votis K. & Nomikos V. (2018). *OneAppy: An Interactive Platform Providing Novel Marketing Channels and Promoting Product and Services to the Tourism Industry*. In: International Conference on Strategic Innovative Marketing and Tourism (ICSIMAT), Springer Proceedings in Business and Economics, Athens, Greece, pp. 559-568, doi: 978-3-030-12453-3\_64.
- C11. Lithoxidou E.E., Paliokas I., Gotsos I., Krinidis S., Tsakiris A., Votis K. & Tzouvaras D. (2018). *A Gamification Engine Architecture for Enhancing Behavioral Change Support Systems*. In: Pervasive Technologies Related to Assistive Environments (PETRA), Corfu, Greece, pp. 482-489, doi: 10.1145/3197768.3201561 (presenter).
- C12. Oliva-Felipe L., Barrué C., Cortés A., Wolverson E., Antomarini M., Votis K., Paliokas I. & Cortés U. (2018). *Health Recommender System Design in the Context of CAREGIVERSPRO-MMD Project*. In: Pervasive Technologies Related to Assistive Environments (PETRA), Corfu, Greece, pp. 462-469, doi: 10.1145/3197768.3201558.
- C13. Solachidis V., Paliokas I., Vretos N., Votis K., Cortés U. & Tzouvaras D. (2018). *Two Examples of Online eHealth Platforms for Supporting People Living with Cognitive Impairments and their Caregivers*. In: Pervasive Technologies Related to Assistive Environments (PETRA), Corfu, Greece, pp. 449-454, doi: 10.1145/3197768.3201556 (presenter).
- C14. Tzallas A. T., Katertsidis N., Glykos K., Segkouli S., Votis K., Tzouvaras D., Barrue C., Paliokas I. & Cortes U. (2018). *Designing a Gamified Social Platform for People Living with Dementia and their Live-in Family Caregivers*. In: Pervasive Technologies Related to Assistive Environments (PETRA), Corfu, Greece, pp. 476-481, doi: 10.1145/3197768.3201560 (presenter).
- C15. Paliokas I., Tzallas AT., Katertsidis N., Votis K. & Tzouvaras D. (2017). *Gamification in Social Networking: A Platform for People Living with Dementia and their Caregivers*. In: 17<sup>th</sup> IEEE International Conference on BioInformatics and BioEngineering, Washington DC, USA, pp. 574-579, doi: 10.1109/BIBE.2017.00015 (presenter).
- C16. Paliokas I. & Sylaiou S. (2016). *The Use of Serious Games in Museum Visits and Exhibitions: A Systematic Mapping Study*. In: 8<sup>th</sup> International Conference on Virtual Worlds and Games for Serious Applications (VSGames), Barcelona, Spain. doi: 10.1109/VS-GAMES.2016.7590371 (presenter).
- C17. Konstadinidou A., Kaklanis N., Paliokas I. & Tzouvaras D. (2016). *A Unified Cloud-based Framework for AAL services Provision to Elderly with Cognitive Impairments*. In: 7<sup>th</sup> International Conference on Cognitive InfoCommunications, Wroclaw, Poland, doi: 10.1109/CogInfoCom.2016.7804540.



- C18. Segkouli S., Paliokas I., Tzouvaras D., Karagiannidis C. & Tsolaki M. (2016). *A New Method for the Assessment of Discourse Comprehension Abilities of Older Adults with Mild Cognitive Impairment*. In: 9<sup>th</sup> Annual international Conference on Pervasive Technologies Related to Assisted Environments (PETRA), Corfu, Greece, doi: 10.1145/2910674.2935848.
- C19. Paliokas I., Segkouli S., Tzouvaras D. & Karagiannidis C. (2016). *A Dynamic Interface Adaptation Approach for Accessible Immersive Environments*. In: IADIS International Conference on Interfaces and Human Computer Interaction (part of MCCSIS 2016), Madeira, Portugal, pp. 37-44.
- C20. Segkouli S., Paliokas I., Tzouvaras, D., Karagiannidis Ch. & Tsolaki M. (2016). *Elderly Education with the Support of Linguistic Interventions for Mental Empowerment* (In Greek). In: 10<sup>th</sup> Panhellenic & International Conference of ETPE 'ICT in Education', Ioannina, Greece, pp. 169-179 (presenter).
- C21. Kaklanis N., Paliokas I. & Tzouvaras D. (2016). *Offering Personalised Cloud-based ICT Solutions to Elderly with Cognitive Impairments*. In: Global Telemedicine and eHealth Updates: Knowledge Resources (Med-e-Tel 2016), Luxembourg, pp. 412-417.
- C22. Paliokas I., Chrysostomou S. & Damianidou V. (2016). *Digital Educational Games in eBooks: Design Methodology and Integration Into the Educational Practice* (In Greek). In: Digital Educational Content and Digital Learning 2.0, Korinthos, Greece, pp. 32-33 (presenter).
- C23. Segkouli S., Paliokas I., Tzouvaras D., Tsolaki M. & Karagiannidis C. (2015). *Study of EEG Power Fluctuations Enhanced by Linguistic Stimulus for Cognitive Decline Screening*. In: 5th EAI International Symposium on Pervasive Computing Paradigms for Mental Health (MindCare 2015), Milan, Italy, pp. 165-175, doi: 10.1007/978-3-319-32270-4\_17 (presenter).
- C24. Segkouli S., Paliokas I., Tzouvaras D. & Giakoumis D. (2015). *Design of Novel Screening Environments for Mild Cognitive Impairment: Giving Priority to Elicited Speech and Language Abilities*. In: 9<sup>th</sup> International Conference on Pervasive Computing Technologies for Healthcare (Pervasive Health 2015), Istanbul, Turkey, 14(4): e3, doi: 10.4108/icst.pervasivehealth.2015.258945.
- C25. Paliokas I., Tsakiris A., Vidalis A. & Tzouvaras D. (2014). *Sense of Presence and Metacognition Enhancement in Virtual Reality Exposure Therapy in the Treatment of Social Phobias and the Fear of Flying*. In: Interactive Technologies for Virtual and Augmented Reality (HCI2014), LNCS 8526, Heraklion, Greece, pp. 316-328 (invited presenter).
- C26. Sylaiou S., Killintzis V., Paliokas I., Mania K. & Patias P. (2014). *Usability Evaluation of Virtual Museums' Interfaces Visualization Technologies*. In: Applications of Virtual and Augmented Reality (HCI2014), LNCS 8526, Heraklion, Greece, pp. 124-133, doi: 10.1007/978-3-319-07464-1\_12.
- C27. Tsakiris A., Paliokas I. & Tzouvaras, D. (2014). *Simulation-Based Accessibility Evaluation of Graphical User Interfaces using Virtual User Models*. In: User Modeling for Accessibility (HCI2014), LNCS 8513, Heraklion, Greece, pp. 288-298, doi: 10.1007/978-3-319-07437-5\_28 (presenter).
- C28. Moschonas P., Paliokas I. & Tzouvaras D. (2014). *A Novel Accessibility Assessment Framework for the Elderly: Evaluation in a Case Study on Office Design*. In: REHAB 2014, Oldenburg, Germany, pp. 366-369, doi: 10.4108/icst.pervasivehealth.2014.255349.
- C29. Sylaiou S., Mania K., Paliokas I., Killintzis V., Liarokapis F. & Patias P. (2013). *Exploring the Effect of Diverse Technologies Incorporated in Virtual Museums on Visitors' Perceived Sense of Presence*, Museums as intelligent environments (MasIE). In: 9<sup>th</sup> International Conference on Intelligent Environments, Athens, Greece, pp. 493-506, doi: 10.3233/978-1-61499-286-8-493.

- C30. Tsakiris A., Moschonas P., Kaklanis N., Paliokas I., Stavropoulos G. & Tzouvaras D. (2013). *Cognitive Impairments Simulation in a Holistic GUI Accessibility Assessment Framework*. In: 12th European AAATE Conference, Vilamoura, Portugal, pp. 489-493, doi: 10.3233/978-1-61499-304-9-489.
- C31. Paliokas I., Arapidis Ch. & Mpimpitsos M. (2011). *PlayLOGO 3D: A 3D Interactive Video Game for Early Programming Education*. In: International IEEE Conference in Games and Virtual Worlds for Serious Applications (VSGames), Athens, Greece, pp. 24-31, doi: 10.1109/VIS-GAMES.2011.10 (presenter).
- C32. Paliokas I., Buda V. & Iancu A.R. (2010). *Archaeo Viz: A 3D Exploratory Learning Environment of Reconstructed Archaeological Sites and Cultural Artefacts*. In: International Conference on Signal Processing and Multimedia Applications (part of ICETE 2010 joint Conference), Athens, Greece, pp. 211-214, doi: 10.5220/0002938902110214 (presenter).
- C33. Paliokas I. (2010). *Teaching Cyberethics using 3D Interactive Narratives* (In Greek). In: 2<sup>nd</sup> Panhellenic Educational Conference of Hmathia: Digital and Web applications in Education, Naoussa, Greece, pp. 1744-1757.
- C34. Paliokas I. (2010). *Teaching Practices for Cognitive Load Management in CAD Education* (In Greek). In: 5<sup>th</sup> Panhellenic Conference: Teaching of Informatics, Athens, Greece, pp. 282-292.
- C35. Karakyrios Ch., Paliokas I., Psycharis S., Kekkeris G. & Reppa A. (2009). *Technological Infrastructures for e-learning* (In Greek). In: 5<sup>th</sup> International Conference on Open and Distance Learning (ICODL 2009), Athens, Greece, pp. 16-26.
- C36. Paliokas I. (2009). *Mapping the Spaces of Virtual Learning Environments*. In: 4<sup>th</sup> International Conference on Virtual Learning: Virtual Learning-Virtual Reality, Iasi, Romania, pp. 83-90.
- C37. Paliokas I. & Karakyrios Ch. (2009). *A Methodology for Designing Videotutorials for Software Learning* (In Greek). In: 5<sup>th</sup> Panhellenic Conference of ICT Educators: Development of ICT in Teaching Practice, Syros, pp. 167-176 (presenter).
- C38. Paliokas I. (2009). *Edugames: Videogames or Learning Environments?* (In Greek). In: 5<sup>th</sup> Panhellenic Conference of ICT in Education: Informatics in Education, Alexandroupolis, Greece.
- C39. Paliokas I. & Damianidou V. (2009). *Software Interfaces as an Extension to Visual Arts and the Technological Background of the Art Education* (In Greek). In: 1<sup>st</sup> Educational Conference of ETPE: Integration and Use of ICT in Educational Processes, University of Thessaly, Volos, Greece, pp. 628-633 (presenter).
- C40. Paliokas I. (2008). *Improvement of Student's Energetic and Environmental Consistence using Educational Videogames*, (In Greek). In: 4<sup>th</sup> Conference of PEEKPE for Environmental Education, Nafplio, Greece (presenter).
- C41. Paliokas I., Lambadas A. & Tseggelidis F. (2007). *Virtual Reality Technology in Landscape Architecture: A Case Study*. In: Landscape Architecture and New Technologies-LANT07, Drama, Greece, pp. 37-53 (presenter).
- C42. Hadjileontiadou S., Paliokas I. & Kekkeris G. (2007). *Audit Tools Characteristics of Urban Outdoor Areas Related to Active Living: Detecting Possibilities for ICT Use*. In: Landscape Architecture and New Technologies-LANT07, Drama, Greece, pp. 313-323.
- C43. Kekkeris G. & Paliokas I. (2005). *Designing Multimedia Instructions in Art Education*. In: Panhellenic Conference on Informatics (PCI 2005), University of Thessaly, Volos, Greece, pp. 280-289 (presenter).

C44. Kekkeris G. & Paliokas I. (1999). *A Digitized Art, Culture and History Image Database on Thrace*. In: International Conference on Electronic Imaging & the Visual Arts (Vasari UK), Berlin, Germany, pp. 61-65.

#### E. POSTERS & CONFERENCES WITH ABSTRACT

- P1. Paliokas I., Iliadou P., Zygoris S., Lazarou E., Votis K., Tzouvaras D. & Tsolaki M. (2021). *A 3D Serious Game for Older Adults with MCI: An examination of differences in brain activity and game performance between MCI patients and healthy older adults*. In: 2<sup>nd</sup> Mediterranean Conference on Neurodegenerative Diseases (MeCoND), Thessaloniki, Greece.
- P2. Paliokas I. (2020). *Gamified Virtual and Augmented Reality Applications in STEM Education*. In: E3STEM Annual Conference: STEM Epistemology, Athens, p. 11.
- P3. Wolverson E., Paulson K., Dunn R., Thorpe J., Zafeiridi P., Howe D., Oxtoby K., White C., Platt R., Votis K., Paliokas I. & Tzouvaras D. (2018). *Online Games for People with Memory Problems and their Carers—Observations from CAREGIVERSPRO-MMD*. In: Alzheimer Europe, Barcelona, PO5.15.
- P4. Segkouli S., Paliokas I., Karagiannidis C., Tzouvaras D., Votis K., Gialaouzidis M. & Tsolaki M. (2018). *Asynchronous Audiovisual Stimulation as a Powerful Screening and Intervention Tool for Mild Cognitive Impaired Seniors*. In: Advances in Alzheimer's & Parkinson's Therapies, Torino, Italy.
- P5. Segkouli S., Paliokas I., Tzouvaras, D., Karagiannidis, Ch. & Tsolaki, M. (2017). *Language Processing as Index of Faint Changes in the MCI Subtypes* (in Greek). In: 10<sup>o</sup> Panhellenic Conference of Alzheimer's Disease (PICAD), Thessaloniki, Greece, pp. 164-165.
- P6. Konstantinou M., Paliokas I., Iakovoglou V., Sarikou S., Chatziphilippidis Gr. & Eleftheriadis N. (2009). *A Web-Enabled Interactive Application for the Development of Knowledge Base on Greek Flora*. In: 5<sup>th</sup> Balkan Botanical Congress, University of Belgrade, Serbia, pp. 160 (republished as full paper in J16).
- P7. Paliokas I. & Damianidou B. (2008). *Computer+Art=Love*. In: International Conference Digital Heritage in the new knowledge environment: shared spaces & open paths to cultural content - Hellenic Ministry of Culture, Athens, p. 195.
- P8. Paliokas I. (2005). *A Software Tool for Educational Activities Design in Aesthetics Education* (In Greek). In: Postgraduate Studies & Research in Education, Florina, Greece, pp. 99-100.

#### F. CONFERENCE/WORSHOP/SEMINARS ORAL PRESENTATIONS

- O1. Paliokas I. (2021). *Videogames and Gamification in STEM Education*. In: E<sup>3</sup>STEM Online Public Seminars, 19 March, 2021.
- O2. Paliokas I., Katertsidis N., Glykos K., Tzallas A., Votis K. & Tzouvaras D. (2019). [Online Activity Patterns of Social Network Users who are at Risk of Cognitive Decline](#). In: 3<sup>rd</sup> Mediterranean Conference on Neurodegenerative Diseases (MeCoND), Thessaloniki, Greece (presenter).
- O3. Tzallas A., Katertsidis N., Paliokas I., Glykos K., Votis K. & Tzouvaras D. (2019). [Development of an Online Platform \(CAREGIVERSPRO-MMD\) based on Social Networking and Gamification for People Living with Dementia and their Caregivers](#). In: 3<sup>rd</sup> Mediterranean Conference on Neurodegenerative Diseases (MeCoND), Thessaloniki, Greece (presenter).
- O4. Zacharaki A., Paliokas I., Votis K., Alexakos C., Sepranos D. & Tzouvaras D. (2019). *Complex Engineering Systems as an enabler for security in Internet of Vehicles: The nIoVe approach*. In: First International Conference on Societal Automation (SA2019), Krakow, Poland.

- O5. Iliadou P., Paliokas I., Zygouris S., Votis K., Tzovaras D. & Tsolaki M. (2019). *Use of a Portable EEG Device for Computerized MCI Screening: Preliminary Results of a new Non-Invasive Biometer* (In Greek). In: 11<sup>th</sup> Panhellenic Conference of Alzheimer's Disease (PICAD), Thessaloniki, Greece.
- O6. Paliokas I., Katertsidis N., Glykos K., Tzallas A., Votis K. & Tzovaras D. (2018). *CMMD Platform User's Activity Patterns*. In: HEALTHIO, Barcelona, Spain.
- O7. Paliokas I., Katertsidis N., Glykos K., Tzallas A., Votis K., Tzovaras D. et al. (2018). *The architecture of the CAREGIVERSPRO-MMD Platform and Service Solutions*. In: HEALTHIO, Barcelona, Spain.
- O8. Segkouli S., Paliokas I., Tzovaras, D., Karagiannidis, Ch. & Tsolaki, M. (2017). [\*Media Enhanced Educational and Training Interventions for the Elderly/MCI\*](#). In: 2<sup>nd</sup> Mediterranean Conference on Neurodegenerative Diseases (MeCoND), Thessaloniki, Greece (presenter).
- O9. Chrysostomou S. & Paliokas I. (2012). *Digital School: Media-enriched Music Textbooks for the Greek Classroom*. In: 30th ISME World Conference, Thessaloniki, Greece.
- O10. Moschonas P., Tsakiris A., Paliokas I. & Tzovaras, D. (2012). *User Interfaces Accessibility Assessment Using Virtual User Models*. In: International Workshop on Personalisable Media Systems & Smart Accessibility, NEM Summit, October 17, Istanbul, Turkey.
- O11. Iakovidis G., Paliokas I. & Antoniou Ch. (2011). *European Education Standards and Vocational Education and Training*. In: Evaluation in Education in the Balkan Countries, Belgrade, Serbia (presenter).
- O12. Paliokas I., Kekkeris G., Simopoulos C. & Karayiannakis A. (2007). *Medical Presentations in Virtual Environments*. In: International Workshop in Medical Education 2007: Current Trends and Challenges, DUTH, Alexandroupolis, Greece.
- O13. Paliokas I. & Kekkeris G. (2006). Discover Folklore Art using ICT (In Greek). In: 1<sup>st</sup> National Conference of Folklore Art and Education, Research Center of Greek Folklore Art (presenter).

#### G. TEXTBOOKS (FOR UNIVERSITY STUDENTS)

- T1. Paliokas I. (2005-2006) *'Introduction to Computers'*: a freshmen textbook for introductory computer science course. Printed for Landscape Architecture Department and Forestry Department of TEI of Kavala. Reprinted during academic year 2006-2007.
- T2. Paliokas I. & Zachariadis A. (2005-2006) *'Laboratory Practice with AutoCAD'*: a textbook for Computer Aided Design. Printed for Landscape Architecture Department and Forestry Department of TEI of Kavala. Reprinted during academic years 2006-2007 and 2007-2008.
- T3. Paliokas I. (2005-2006) *'Theory of CAD and designing with AutoCAD'*: a textbook for CAD courses in Landscape Architecture Department and Forestry Department of TEI of Kavala. Reprinted during academic years 2006-2007 and 2007-2008.
- T4. Paliokas I. (2007-2008) *'51 Videotutorials for AutoCAD'*: recorded lecture series for CAD courses. Distributed to Landscape Architecture Department students of TEI of Kavala in DVD-ROM (also copies available in the library).
- T5. Paliokas I. (2008-2009) *'Design software and applications in Elementary Education'*: laboratory exercises for the homonymous course of the Department of Elementary Education, Democritus University of Thrace. Printed for academic year 2008-2009.
- T6. Paliokas I. (2008-2009) *'Introduction to Multimedia'*: educational multimedia courses for the Department of Elementary Education, Democritus University of Thrace. It was distributed to university student as an e-book during the academic year 2008-2009.

- T7. Paliokas I. (2009-2010) '*Laboratory Exercises for Computer Graphics*': a textbook about Computer Graphics for the Informatics Department of ATEI of Thessaloniki. Reprinted during the academic year 2010-2011.
- T8. Paliokas I. (2009-2010) '*37 Videotutorials for Internet Programming*': series of recorded lectures, Department of Informatics, ATEI of Thessaloniki. Distributed to the students who were attending laboratory courses on Internet Programming course.

## H. OTHER KINDS OF PUBLICATIONS

Behavioral Change Support System (BCSS): Lemma in Wikipedia, Wikimedia Foundation, Inc., available online at: [https://en.wikipedia.org/wiki/Behavioral\\_change\\_support\\_system](https://en.wikipedia.org/wiki/Behavioral_change_support_system)

## PATENTS

- Paliokas I., Zamanis V. (2020). Programmed Mobile Electronic Device for Monitoring and Evaluation of the Efficiency in Hiking, Athletic, Tourism and Recreational Activities. Industrial Property Organization (International Patent Classification number: A63B 69/00).
- Andriotis D., Paliokas I., Tsakiris A. (2019, status: active). *Techniques for Stereoscopic Online Web Content Creation and Rendering*. United States Patent Application No.: US 20190171695 A1 (Appl. No.: 16/253146).
- Andriotis D., Paliokas I., Tsakiris A. (2017, status: active). *Stereoscopic online Web Content Creation and Rendering*. United States Patent Office No.: US 9,678,929 B2 (Appl. No.: 14/105,998).
- Paliokas I. (2008-2018). *Personal Pharmaceutical Reminder*. Hellenic Industrial Property Organization, Patent No.: 1006180 (International Patent Classification number: IPC8 A61J 7/04).

## TEACHING EXPERIENCE AT UNIVERSITY LEVEL

### A. AS ADJUNCT FACULTY MEMBER

- Educational Technology in Accounting & Finance (LNZ6- International Hellenic University, Department of Accounting and Finance): Information and Communication Technologies (ICT), New requirements in the educational, social and professional life domains from the development of Educational Technologies, Electronic distance teaching and learning technologies, Virtual learning environments and asynchronous/asynchronous learning platforms, Mixed reality environments for educational use, Models of integration of portable electronic devices into the educational processes, Open digital educational resources, Learning theories, models of ICT integration in education, Gamification in Education, Features and usage of educational technologies and e-learning applications, Development of teaching scenarios for Accounting & Finance using digital technologies, Usage and benchmarking of educational technologies in the training of accountants and economists (Winter semester 2022-2023).
- Informatics II (NB4-International Hellenic University, Department of Accounting and Finance): Introduction to Database Systems (Access and SQL Server), realistic accounting and financial training use case examples. Topics include: Purpose of Database Systems. History of Database Systems. View of Data. Overall Structure. Database Architecture. Database Users and Administrators. Database Languages. Database Design. Data Storage and Querying. Relational Databases. Relational Model. Structure of Relational Databases. Relational Algebra. Relational Algebra Operations. Modification of the Database. Entity-Relationship Model. Design Process. Modelling. Constraints. E-R Diagram. Design Issues. Database

Design. Normalization at 4NFs. Databases in Client/Server environment. SQL. Data Definition. Basic Query Structure. Set Operations (Spring semester 2021-2022).

- Management Information Systems (NÉT5-International Hellenic University, Department of Accounting and Finance): Introduction to Management Information Systems (MIS), as they are shaped in the light of current economic, technological and social changes (internationalization of the economy, decentralization of the organization, rapid development of Information Technology, etc.). Contents include: Elements of system theory and application in Information Systems, Types of Information Systems, Introduction to MIS, MIS in the New Administrative and Business Environment, The Strategic Role of Information Systems, Information Systems-Organizations-Businesses-Procedures, Information Management and Decision Making, Computers and Information Processing, Information Systems Software, Data management, Telecommunications and Networks, Introduction to Information Systems Development, Lab exercises on Integrated Information Systems - ERPs (Spring semester 2021-2022).
- Informatics I (NA6-International Hellenic University, Department of Accounting and Finance): Introduction to Information Technology, Operating Systems, Networks, communications and the Internet. Lab: Windows and Linux operating systems, Networks and Internet, Spreadsheets editing with Excel. VBA. Topics include: i. Basic concepts of Informatics. Historical evolution of informatics. Numbering systems. Coding of information, ii. Computer hardware (processor, memory, input/output devices). Computer organization, iii. Computer arithmetic. Processor's structure and operation, iv. Software (programming languages, operating systems, applications). Office automation, v. Multimedia, vi. Telematics and telecommunications. Computer networks, vii. Basic Internet Services. Worldwide web. WWW Servers. Browsers. Information retrieval methods and tools, viii. Mobile Computing. Advances in Informatics and Communications, ix. Programming in VBA. Objects, Collections, Properties and Methods. Procedures, x. Variables and Constants. MsgBox and InputBox commands. Selection and Repeat Commands, xi. Programming in VBA. Tables. Custom Functions (Winter semester 2021-20211).
- Software Design and Management (PLS61-Hellenic Open University, postgraduate specialization in information systems): Solid theoretical background on software systems development and concepts of modern software technology methodologies. It covers topics like Software Design, Software Management & Quality, and Human-Computer Communication. The aim is for the students to know and be able to apply modern design methodologies on large software systems, such as the object-oriented development philosophy and the Unified Modelling Language (UML), in order to design modern complex software, assisted by corresponding tools (CASE), to manage software development projects while ensuring its quality in accordance with the principles, metrics and software quality standards. Moreover, students learn the design, develop and evaluate interactive computer systems with methodologies and tools for designing user interfaces accompanied by analytical and empirical techniques for evaluating interactive systems (Full academic year 2020-2021).
- Informatics in Education (PLH37-Hellenic Open University, Computer Science Department): Divided into three parts: A. Teaching Informatics, B. ICT in Education and C. Educational Software Design. The purpose of the module is to study the challenges of ICT integration in education. The main points of the module focus are: computer-aided teaching, learning theories, educational software, open educational environments, the integration models of IT in education, the teaching of informatics and the programming courses, educational software design, development models and tools, educational software evaluation, prototyping and quality control (Full academic years, 2017-2020, & 2021-2022).
- Computer Graphics (707-ATEI of Thessaloniki, Department of Informatics): Computer hardware, special input and output devices, Virtual Reality Technology, coordinate systems, geometric transformations, raster display algorithms, antialiasing, face removal algorithms, lighting, shaders, Texture Mapping, Phong, Gouraud, Radiosity, texture mapping, CAD systems, programming in OpenGL/VRML, Game Engines, Physics Engines, Machinima (Winter & Spring semesters 2008-2010, Winter semester 2010-2011).



- Programming II (201-ATEI of Thessaloniki, Department of Informatics): Advanced topics in Software Engineering, sorting algorithms, recursion, algorithm evaluation, object-oriented programming, classes, hash tables, composition, inheritance, access modifiers, downcasting-upcasting, overloading methods, exceptions, abstract classes, interfaces, packages (Winter & Spring semesters 2010-2011).
- Educational Use of Computers (Higher School of Pedagogical and Technological Education-ASPAITE, Branch of Thessaloniki): Educational (constructivist) theories and Computer Based Learning (Papert), Explorative Learning (Bruner), Social theories (Vygotsky), ICT in Education. Educational software categorization, Drill and practice software, discovery model, Computer based laboratories, exploratory model. The educational effectiveness of qualitative and quantitative models of Computer Based Learning, computers as mindtools, educational use of the Internet (Spring semesters 2010-2014).
- Educational Technology and Multimedia (Higher School of Pedagogical and Technological Education-ASPAITE, Branch of Thessaloniki): Education and Society, audio-visual media, computer mediated communication, characteristics of WEB 2.0, Multimedia Learning Objects, Rich Educational Content, Curricula Design and Evaluation (Winter semesters, 2009-2013).
- Internet Applications Programming (604-ATEI of Thessaloniki, Department of Informatics): This module introduces the principles of internet programming and presents architectures, methodologies and programming environments for internet programming, History, architecture of the Internet, HTML, XHTML, Document Object Model , XML, AJAX, use of Cascade Style sheets, dynamic positioning, Client-side scripting by using various scripting languages such as JavaScript & VBScript (Winter & Spring semester 2009-2010).

#### B. AS ADJUNCT LECTURER

- Multimedia Applications (MK40-University of Western Macedonia, Department of Engineering Informatics and Telecommunications): Multimedia systems and typical characteristics, digital representation of information, compression techniques & algorithms, storage media, analysis & design of multimedia applications, used methodologies and content development tools (Winter semester 2011-2012).
- Introduction to Computers (Democritus University of Thrace-Department of Elementary Education): Computer architecture, software and hardware, operating systems, educational software, Internet, networks safety, introduction to multimedia applications, impacts of Information and Communication Technologies (ICT) in society, ICT in Education, e-learning technologies, educational effectiveness in computer-based learning. Laboratory exercises in Windows, Word, Excel, PowerPoint and various educational software titles (Winter semester 2009-2010).
- Introduction to Multimedia (Democritus University of Thrace-Department of Elementary Education): Basic concepts and definitions of multimedia, multimedia applications characteristics, digitized files, textual, audio, image and video files, data storage, multimedia learning objects design, digital image processing, educational webpage development, multimedia applications development and evaluation methodologies (Spring semester 2009-2010).
- Educational Software (Democritus University of Thrace-Teacher's School 'Theodoros Kastanos'): Introduction to educational software, popular applications and pedagogical engineering, computer-based learning solutions, educational software design methodologies, educational web applications design, educational software evaluation (Spring semester 2009-2010).
- ICT in Education (Democritus University of Thrace-Department of Elementary Education): Linguistic and pedagogical subjects using Information and Communication Technologies, interdisciplinary approaches in history, Art and aesthetics education, school websites, project method, virtual learning environments, e-learning, computer ethics and cyberethics (Winter semester 2008-2009).

- Design software and applications in Elementary Education (Democritus University of Thrace-Department of Elementary Education): Educational 2d graphics media, digital image processing, animation processing, digital educational narratives, educational comics, virtual museum applications, virtual art exhibitions, LOGO programming language, multimedia content in school projects (Winter semester 2008-2009).

### C. AS TEACHING ASSISTANT (BEFORE PHD)

- Computer Aided Design (S/A/1, TEI of Kavala, Department of Landscape Architecture): Introduction to Computer Aided Design, CAD software, architecture of CAD systems, input devices, digitizers, 3d scanners, photorealism, CAD standards, the future of CAD systems. Coordinate systems, absolute and relative coordinates, polar and spherical coordinate, polygon models, geometric transformations, projections. CAD interfaces, layers, commands, plotting, introduction to 3D modeling, case studies in group projects (Winter & Spring semesters 2005-2008).
- Introduction to Computers (Π/15, TEI of Kavala, Department of Landscape Architecture): Computer concepts, computer components, computer technology evolution, computer generations, impacts of computer technology on society, numerical systems, the binary system, computer logic, algebra BOOLE, digital-analog computers, software types, computer languages, introduction to Windows, basic use of Internet, FTP (Winter & Spring semesters 2005-2007).
- Computer Aided Design (FOS210-TEI of Kavala, Department of Forestry & Natural Environment Management): Software for topographic maps, digital architectural drawings, introduction to Computer Aided Design, basic use of interfaces, commands, plotting, 2D modeling, case studies in group projects (Winter & Spring semesters 2005-2006).
- Introduction to Computers (FOA101-TEI of Kavala, Department of Forestry & Natural Environment Management): Computer concepts, computer components, computer technology evolution, computer generations, impacts of computer technology on society, numerical systems, the binary system, computer logic, algebra BOOLE, digital-analog computers, software types, computer languages, introduction to Windows, introduction to the Internet (Winter & Spring semesters 2006-2007).
- Computer Software (FOS209-TEI of Kavala, Department of Forestry & Natural Environment Management): Word processing software, text format, Equation Editor, spreadsheet software, functions, graphs (Spring semester 2006-2008).

### TEACHING EXPERIENCE IN VOCATIONAL TRAINING

- Computer Networks I (2nd Institute of Professional Training, OAED of Thessaloniki): Spring sem. 2004-2005.
- Algorithms & Data Structures (2nd Institute of Professional Training, OAED of Thessaloniki): Winter sem. 2004-2005.
- Electronic & Digital Measurements (Institute of Professional Training, OEEK of Epamoni): Spring sem. 2005-2006.
- Programming in Visual Basic (2nd Institute of Professional Training, OAED of Thessaloniki): Winter sem. 2005-2006.
- Introduction to Programming (Delta Institute, Thessaloniki): Winter sem. 2001-2002.
- Windows NT (Delta Institute of Professional Training, Thessaloniki): Winter sem. 2001-2002.
- Algorithms & Data Structures (Delta Institute, Thessaloniki): Winter sem. 2001-2002.

- Internet Programming (2nd Institute of Professional Training, OAED of Thessaloniki): Winter & Spring sem. 2004-2005.
- Computer Hardware (2nd Institute of Professional Training, OAED of Thessaloniki): Winter & Spring sem. 2004-2005.
- Computer Software (2nd Institute of Professional Training, OAED of Thessaloniki): Winter & Spring sem. 2004-2005, 2005-2006.
- Computer Programming (2nd Institute of Professional Training, OAED of Thessaloniki): Winter & Spring sem. 2005-2006.
- Computer Applications (2nd Institute of Professional Training, OAED of Thessaloniki): Winter & Spring sem. 2005-2006.
- Commercial Applications (2nd Institute of Professional Training, OAED of Thessaloniki): Winter & Spring sem. 2005-2006.
- Data Transmission & Computer Networks (2nd Institute of Professional Training, OAED of Thessaloniki): Winter & Spring sem. 2005-2006.
- Computer Driving License - ECDL (WIN-NET private institute): Introduction to Informatics, Word, Excel, PowerPoint, Access, Internet, Winter & Spring sem. 2004-2005, Winter sem. 2006.
- Seminar on Office Automation (Center of Professional Training OAED of Thessaloniki): Intensive seminars for professionals, December 2009.
- Seminar on Informatics, Databases, Presentations, Safety in working environments (Center of Professional Training OAED of Thessaloniki): Intensive seminars for professionals, May-July 2009.
- Seminar on Informatics, Computer Architecture, Office, Operating Systems, Computer Networks, Internet, Internet Programming, Networks Safety, Safety in working environments (Center of Professional Training OAED of Thessaloniki): Intensive seminars for professionals, September 2009.

## TEACHING EXPERIENCE IN ELEMENTARY, SECONDARY & POST-SECONDARY EDUCATION

- New Technologies (Informatics) in Elementary Education, 12<sup>th</sup> Elementary School of Kalamaria, Thessaloniki (school year 2004-2005)
- Various Computer Science topics like programming and networks in Technical Secondary education ([EPAS OAED of Thessaloniki](#), school years 2004-2009)
- ECDL courses in local private schools ([Win.NET](#): 2004-2006)
- Applied Computer Science courses in Vocational Training programs of [KEK OAED](#) (acad. years 2007-2009)

## SUPERVISING STUDENTS' THESIS

Georgios Karamousalidis (2022). Urban Navigation Systems: Hybrid Recommendation Systems in Tourism, Hellenic Open University, Faculty of Informatics, Patras.

Paschalis Kitsikoudis (2022). User Behaviour Analysis Tools in Online Environments using Visual Analytics Principles, Hellenic Open University, Faculty of Informatics, Patras.

Georgios Papamanolis (2022). Gamified Financial Management Systems: Design of an application for Local Authorities, Hellenic Open University, Faculty of Informatics, Patras.

- Vasilios Tsiolas (2022). Creating a Massive Open Online Course to teach Business Analytics Principles & Tools, Hellenic Open University, Faculty of Informatics, Patras.
- Anastasia Migkotzidou & Anastasia Stampoulaki (2013). Hellenization of the Computer Aided Design package 'Blender' and Adaptation to the standards of the Greek Secondary Education (post-graduate), Higher School of Pedagogical and Technological Education, Thessaloniki
- Georgios Pantikidis (2013). Music Technology and Digital Educational Content (post-graduate), Higher School of Pedagogical and Technological Education, Thessaloniki
- Georgia Pachalidou & Nikolaos Vesypoulos (2013). Game Based Learning: A Use Case in Visual Arts (post-graduate), Higher School of Pedagogical and Technological Education, Thessaloniki
- Thomas Sideris & Ioannis Tzatsis (2013). Creation of Computer-Based Testing app to support the National University Examination candidates (post-graduate), Higher School of Pedagogical and Technological Education, Thessaloniki
- Georgios Poulas (2012). Serious Games in Education: Features and Applications (post-graduate), Higher School of Pedagogical and Technological Education, Thessaloniki
- Panagiotis Koutsouras (2011). Automatic Background Noise Removal from Video Streams in Real Time (undergraduate), ATEI of Thessaloniki, Department of Informatics.
- Athanasia Notta (2011). Semi-automatic Processing of Social Network Profiles: an Ajax Facebook Application (undergraduate), ATEI of Thessaloniki, Department of Informatics.
- Panagiota Skiada (2011). Design and Implementation of Online Services for Archiving Legal Receipts and Statistical Analysis (undergraduate), ATEI of Thessaloniki, Department of Informatics.
- Nikolaos Asproudis (2010). Educational interventions for the safe use of the Internet (post-graduate), Higher School of Pedagogical and Technological Education, Thessaloniki.
- Ioannis Krommidas (2010). An Educational Videogame for the Space Exploration (in honour of the Pontian-Greek astronaut Theodor Yurchikhin, undergraduate), ATEI of Thessaloniki, Department of Informatics.
- Christos Arapidis, Michail Mpimpitsos (2010). Design and Implementation of Edugames (Undergraduate), ATEI of Thessaloniki, Department of Informatics.
- Sonia Theodoridou (2010). 3D Graphical Representations of Boutique Shops on the Internet (undergraduate), ATEI of Thessaloniki, Department of Informatics.
- Stavroula Augerinou (2010). Design of a 3D Machinima Movie (undergraduate), ATEI of Thessaloniki, Department of Informatics.
- Sofia Rapti (2009). Design of Educational Software for Environmental Education (undergraduate), TEI of Kavala, Landscape Architecture Department.
- Alaxandros Lampadas (2008). Reconstruction of School yard using 3D CAD software (undergraduate), TEI of Kavala, Landscape Architecture Department.

## SCHOLARSHIPS

State Scholarships Foundation (IKY): Scholarship for participation in the Grundtvig training program 'Personal Mastery and Collective Intelligence in Adult Education', Limassol, Cyprus, 16-20/4/2012.

## SEMINARS / CERTIFICATES

- 'Open and Distant Education': Certification given from the Training and Lifelong Learning Center of the Hellenic Open University, Patras, Greece (50 hours lecture and written exams)
- '*Pictor*': New Artists Seminar, State Museum of Contemporary Art, 4 weekends of October, 2008, Thessaloniki, Greece
- '*ECDL CAD*' Certificate for AutoDesk AutoCAD, 2007, Thessaloniki, Greece
- '*Task Based Learning (TBL)*' Seminar, University of Macedonia, February, 2006, Thessaloniki, Greece (certification attributed after written exams)
- '*The Effective Manager*', City University of New York (CUNY)-Queens College, Equivalent to 6 ECTS, 2003 Summer School, NY, USA

## LANGUAGES

- English (professional working knowledge)
- Greek (as a native speaker)