

CURRICULUM VITAE

Prof. Dr. Maria Pateraki
www.mpateraki.org

October 2021

Contact Information - Work address:

Photogrammetry and Computer Vision Laboratory
School of Rural, Surveying and Geoinformatics Engineering
National Technical University of Athens
9 Iroon Polytechniou str., GR15780, Athens - GR

Computational Vision and Robotics Laboratory, Institute of Computer Science
Foundation for Research & Technology - Hellas
100 N. Plastira str., Vassilika Vouton, GR70013 Heraklion, Crete - GR
tel: +30 6939 099956
email: mpateraki@mail.ntua.gr pateraki@ics.forth.gr

SUMMARY

Coordination of R&D in the converging areas of computer vision and photogrammetry with an established track record of developing vision systems for real-world problems. R&D experience in industry, research institutes and academia and participation in more than 25 EU, international and national funded projects.

EDUCATION

2001 - 2005 Ph.D. in Photogrammetry, Inst. of Geodesy and Photogrammetry, D-BAUG, Swiss Federal Institute of Technology - ETH Zurich, CH.

Dissertation title: *Adaptive multi-image matching for DSM generation from airborne linear array CCD data*. Advisors: Prof. Dr. Armin Grün, Dr. Emmanuel Baltsavias.

1995 - 2000 Dipl.Eng. in Rural and Surveying Engineering, School of Rural and Surveying Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece. Formal duration of studies: 5 years. Major in Photogrammetry. GPA: 8/10 (Very Good)

Thesis title: *Studies on Automatic Digital Terrain Model generation using the Match-T algorithm.*, Thesis grade: 10/10 (Excellent) Advisor: Prof. Dr. Petros Patias.

EMPLOYMENT POSITIONS

07.2020 - present **Assistant Professor**, Photogrammetry and Computer Vision Lab, NTUA, Greece.

Key tasks: Tutoring of undergraduate courses in photogrammetry and computer vision. Coordinating large scale EU projects in visual perception systems, smart environments and robotics in EU projects. Research in object tracking, 3d pose estimation, ubiquitous sensing. Supervision of Undergraduate, MSc and PhD students.

05.2008 - present **Research Associate/ Affiliated Researcher**, Computational Vision and Robotics Lab, FORTH, Greece.

Key tasks: Coordinating research work for visual perception systems in EU projects. Research in human & object tracking, 3d pose estimation, gesture recognition algorithms. Development of real-time vision systems for AR Apps, HRI. Prepared & presented deliverables to consortium members and EU committee. EU & national research proposal writing. Supervision of MSc and PhD students.

03.2019 - present **Research Executive**, [ORamaVR](#), Greece.

Key tasks: Coordinating R&D activities, EU-funded projects.

11.2012 - 02.2014 **Visiting Assistant Professor**, Computer Science Dept., Univ. of Crete, Greece.

Tutored undergraduate and graduate courses in Digital Image Processing and Multimedia Technology. Supervised student project work.

- 10.2006 - Visiting Lecturer**, Aristotle University of Thessaloniki, Greece.
09.2007 Tutored undergraduate and graduate courses. Supervised diploma and Msc Theses.
- 03.2003 - Photogrammetric Research Engineer** (external employee), Leica Geosystems GIS & Mapping, Heerbrugg (Switzerland), Atlanta (USA) and San Diego (USA).
05.2007 Key Tasks: Algorithmic solutions, consulting, software development and knowledge transfer for sensor modelling, image analysis and automatic extraction of 3D information from images. Analysis of geometric sensor models and photogrammetric software.
- 11.2006 - Photogrammetric Engineer** (external collaborator), Elpho Ltd., Athens, Greece.
04.2008 Key Tasks: Collaboration in a photogrammetric research project in the archaeological site of the Acropolis of Athens as external consultant for the production of large-scale orthophotomosaics using different cameras and sensor platforms.
- 11.2005 - Research Fellow**, Dept. of Cadastre, Photogrammetry and Cartography, School of Rural and Surveying Engineering, Aristotle University of Thessaloniki, Greece.
09.2007 Key tasks: Coordinating and leading an individual research fellowship on 3D modeling of complex objects using 3d point clouds and image data. Collaboration in interdisciplinary research projects (archaeological, medical, architectural). Supervision of MSc and Diploma Thesis. Tutoring undergraduate and graduate students as visiting lecturer.
- 02.2006 - Research Associate**, Cooperative Research Center for Spatial Information (CRC-SI) -
06.2006 University of Melbourne, Australia.
 Key tasks: Collaboration in a national research initiative for the development software system for data processing and metric geo-information extraction from high-resolution satellite imagery (HRSI). Co-Supervision of PhD Theses. Invited speaker for training courses for professionals.
- 02.2005 - Research Associate**, Inst. of Geodesy and Photogrammetry, ETH Zurich, CH.
10.2005 Key tasks: Seed money grant for the promotion of international research collaboration with developing countries (Jordanian academic partner institutions and the Department of Antiquities). Field work and training in Jordan. Conceptualized an interactive e-learning environment for Bachelor and Master courses. Collaboration as external research consultant with Northwest Geomatics - Canada. Contribution in successful EU & national research proposal writing. Wrote winning research proposal for 1-year fellowship from State Scholarships Foundation (IKY). Member of the organizing committee of international workshops, conferences and summerschools.
- 07.2000 - Research Assistant**, Inst. of Geodesy and Photogrammetry, ETH Zurich, CH.
02.2005 Key tasks: Led research and developed software adaptive multi-image matching algorithms for automatic DSM production from data from the first airborne linear sensor (ADS40) produced by Leica Geosystems. Radiometric and geometric evaluation and image processing methods for the enhancement of high resolution satellite data. Collaborated with leading companies in the field of vision metrology, photogrammetry and remote sensing as external research consultant (Pasco Corp. - Japan, Northwest Geomatics - Canada). Contribution in EU & national research proposal writing. Tutoring undergraduate students (lectures and exercises), co-supervision of student projects and theses.
- 12.1999 - Undergraduate Research Assistant** (Hilfsassistentin), SOCRATES Student, Inst. of
06.2000 Geodesy and Photogrammetry, ETH Zurich, CH.
 Key tasks: Performance analysis of automatic extraction of digital terrain models (DTMs) in Digital Photogrammetric Workstations, landscape 3D visualization.

SCIENTIFIC IMPACT (*Oct '21*)

Google Scholar *h*-index: 18, Citations: 1234, *i10*-index: 25

HIGH IMPACT RESEARCH PROJECTS

- 01.2021 - 06.2024** **H2020 EU FELICE: FLExible assemBLy manufacturIng with human-robot Col-laboration and digital twin modELs.**
 Role: Coordinator. FELICE addresses one of the greatest challenges in robotics, i.e. that of coordinated interaction and combination of human and robot skills. The project targets the application priority area of agile production and aspires to design the next generation assembly processes to effectively address current and pressing needs in manufacturing. FELICE unites multidisciplinary research in collaborative robotics, AI, computer vision, IoT, machine learning, data analytics, cyber-physical systems, process optimization and ergonomics.
- 01.2020 - 12.2022** **H2020 EU ACCORDION: Adaptive edge/cloud compute and network con-tinuum over a heterogeneous sparse edge infrastructure to support Nextgen applications.**
 Role: PI. ACCORDION aspires to support the enlargement of the edge resource & infras-tructure pool so as to cover more geographies and users, thus truly enabling ubiquitous and collaborative applications that will benefit from the edge computing offerings. The project aims to support 3 highly anticipated NextGen applications on collaborative VR, multiplayer mobile- and cloud-gaming, thus applications that are computationally- and data-intensive at the edge, latency- and QoE-sensitive, yet collaborative and -as such- scalable in nature.
- 09.2019 - 08.2023** **H2020 EU SMART BEAR: Smart Big Data Platform to Offer Evidence-based Personalised Support for Healthy and Independent Living at Home.**
 Role: Co-PI. PI: Dr. Sotiris Ioannidis. The aim of the SMART-BEAR platform is to inte-grate heterogeneous sensors, assistive medical and mobile devices to enable the continuous data collection from the everyday life of the elderly, which will be analysed to obtain the evidence needed in order to offer personalised interventions promoting their healthy and independent living. The project focuses on five prevalent conditions of ageing population, with tremendous social and financial impact.
- 01.2019 - 12.2021** **H2020 EU sustAGE: Smart environments for person-centered sustainable work and well-being.**
 Role: Coordinator. The project aims towards a paradigm shift in human machine inter-action, building upon seven strategic technology trends, IoT, Machine learning, micro-moments, temporal reasoning, recommender systems, data analytics and gamification to deliver a composite system integrated with the daily activities at work and outside, to support well-being, wellness at work and productivity of ageing employees. Responsible for the development of the visual perception subsystem.
- 01.2015 - 06.2018** **H2020 EU FET-TimeStorm: Mind and Time Investigation of the temporal attributes of human-machine synergetic interaction.**
- 02.2011 - 07.2014** **FP7 EU JAMES: Joint Action for Multimodal Embodied Social Systems.**
 Role: Co-I. PI: Prof. P. Trahanias. Responsible for the development of the JAMES visual perception system, which emphasized capabilities directly related to the robots social interaction skills in dynamic scenes, such as (a) tracking of humans and their individual body parts as well as objects, (b) extracting pose related information from body and face and (c) recognizing communicative (waiving, pointing) and manipulative (grab /holding an object) gestures.
- 02.2010 - 07.2013** **FP7 EU FIRST-MM: Flexible Skill Acquisition and Intuitive Robot Tasking for Mobile Manipulation in the Real World.**
 Role: Researcher. PI: Prof. P. Trahanias. FIRST-MM goal was to build the basis for a new generation of autonomous mobile manipulation robots that can flexibly be instructed to perform complex manipulation and transportation tasks. Contribution in FIRST-MM relates to the visual perception system that should be able to identify and track the pose of a number of objects, as well as the instructor's hand while performing manipulation tasks.

- 05.2008-12.2009** - **FP6 EU INDIGO: Interaction with Personality and Dialogue Enabled Robots.**
Role: Co-I. PI: Prof. P. Trahanias. INDIGO project aimed to develop human-robot communication technology for intelligent mobile robots that operate and serve tasks in populated environments. Contribution in INDIGO regarded development of algorithms for people tracking and recognition of facial features, expressions and head gestures in real time while in dialogue.
- 02.2006 - 06.2006** - **Automated mapping and feature extraction from space, aerial and terrestrial imagery**, funded by the Cooperative Research Center for Spatial Information, Australia
Role: Researcher. PI: Prof. C. Fraser. Contribution in (a) development of new and improved image analysis algorithms for image enhancement, 2D and 3D feature detection, meeting the needs of automated workflow, and (b) integration into the [Barista software package](#) for processing High-Resolution Satellite Images.
- 11.2005 - 11.2006** - **Optimizing the 3D modelling of complex objects from unstructured point clouds and digital images**, postdoctoral scholarship award of the State Scholarships Foundation (IKY), Greece.
Role: PI. Co-I: Prof. P. Patias. Fellowship award for the development and refinement of methods for the registration of 3d point clouds and 3D modeling of complex objects by integrating additional information from images.
- 11.2005 - 09.2007** - **SCOLIOSIS: Automatic photogrammetry methods for diagnosis and follow-up of scoliosis**, funded by the Cyprus Research Promotion Foundation.
Role: Researcher. PI: Prof. P. Patias. Co-I: GeoImaging Ltd., Prof. Yiorgos Chrysanthou. Development of an automatic system for the recording, diagnosis and monitoring of idiopathic scoliosis incidents using digital images of the visible spectrum. Stereo image processing for dense 3D model extraction of the patient's back.
- 04.2005 - 04.2006** - **EU-FP6 Network of Excellence EPOCH Newton Project IMODELASER: Integration of image and laserscan data for 3D modeling.**
Role: Co-PI. PI: Prof. A. Gruen. Integration of laserscanners and imaging devices on the sensor and data levels with the aim to improve the quality and speed of automated 3D modeling.
- 04.2005 - 06.2005** - **Recording and Digital Documentation of the ancient city of Jerash, Jordan**, funded by the Network for International Development and Cooperation (NIDECO)- [Seed Money Grant](#) for the preparation of applications to obtain third-party funds for new projects.
Role: Co-PI. PI: Prof. A. Gruen, Dr. E. Baltsavias. Documentation and automatic extraction of photorealistic 3D models of the monuments, using high-resolution images and laser scanner data. Contribution in proposal preparation, data collection and preliminary processing to support future funding.
- 04.2001 - 07.2003** - **AIM - Adaptive multi-image matching for automatic terrain model generation from digital airborne sensor data**, funded by the Swiss Innovation Promotion Agency (KTI) and Leica Geosystems GIS & Mapping (LGGM).
Role: PI. Co-PI: Prof. A. Gruen, Dr. E. Baltsavias. Policy domain: industrial production and technology. Development of algorithms and methods for adaptive multi-image matching with focus on automatic generation of digital surface models (DSMs) using digital image data from the first generation airborne linear sensor (ADS40) produced by LGGM.
- 02.2001 - 10.2005** - **Processing of high-resolution satellite images**, research initiative by private and public partners.
Role: Researcher. *Partners:* (a) University of Melbourne, Australia, (b) STARLABO Corp., Japan, (c) Swissphoto Group AG, Switzerland, (d) [CNES-ISPRS Study Team](#). Contribution in the evaluation of the radiometric quality of IKONOS, Quickbird and SPOT-5 high-resolution satellite imagery. Radiometric data preprocessing including automatic methods for noise estimation, noise reduction and contrast enhancement.

- 01.2002 - **EU FP5 GEOWARN - Geospatial Warning Systems.**
12.2003 Role: Researcher. Contribution in processing of high resolution satellite imagery (IKONOS multispectral) over Nisyros island (GR) with the aim to produce an orthoimage for mapping purposes and a photorealistic 3D model.

OTHER RESEARCH PROJECTS

- 12.2007 - **Monitoring of arbitrary buildings in the Prefecture of East Attica by satellite**
12.2011 **imagery and automated methods**, funded by the Technical Chamber of Greece.
Role: PI - Member of leadership team, Co-I: Prof. Dr. D. Argialas, G. Gianniris. Image-based system development for the automatic detection and monitoring of arbitrary buildings in the Prefecture of East Attica, Greece.
- 07.2007 - **Application of a GIS system in the Acropolis of Athens**, funded by the Ministry
07.2008 of Culture, Greece.
Role: Researcher. *Partners:* (a) ELPHO - Greece, (b) ETHZ - Switzerland, (c) NRC - Canada. Contribution in proposal preparation and coordination of image processing team.
- 10.2006 - **Digital documentation and reconstruction of the Palace of Vergina**, Greece
06.2007 funded by Aristotle University of Thessaloniki.
Role: Researcher. PI: Prof. P. Patias. Interdepartmental program of Aristotle University of Thessaloniki. Contribution in (a) large scale mapping of the area of the Palace with the use of UAVs and photogrammetric techniques and (b) recording and photogrammetric documentation of the architectural parts.
- 07.2006 - **Creation of a Virtual space for the Macedonian Museum of Modern Art**, Thes-
12.2006 saloniki, Greece, funded by Aristotle University of Thessaloniki.
Role: Researcher. PI: Prof. P. Patias. Creation of a web-based Virtual Museum, using new technologies. The virtual space of the museum will consist of a collection of artefacts, digitized with image-based techniques, 3D laserscanning or modeled in 3D with CAD programs. Contribution in proposal preparation and photorealistic 3D model generation of an indicative number of artefacts using laserscanning and images.
- 02.2006 - **Measurement of Cracks in Concrete Structures**, funded by the University of Mel-
06.2006 bourne.
Role: Researcher. PI: Prof. C. Fraser. Improvement of automated image processing techniques for accurate, multi-temporal crack measurements. Integration in existing software system.
- 06.2005 - **Eye Learn: An Interactive WEB based e-Learning Environment in Photogram-**
09.2005 **metry and Remote Sensing**, funded by ETHZ.
Role: Researcher. PI: Emmanuel Baltsavias. Proposal preparation for the development of an interactive WEB-based, place- and time-independent e-Learning environment for the Bachelor courses Fundamentals of Photogrammetry and Remote Sensing.
- 06.2005 - **FP6 - EU PEGASE (helicoPter and aEronef naviGation Airborne System**
09.2005 **Experimentations).**
Role: Researcher. Contribution in proposal preparation
- 01.2004 - **EU EPOCH - Network of Excellence in Processing Open Cultural Heritage.**
01.2005 Role: Researcher. PI: Prof. A. Gruen. *Partners:* More than 100 European institutions, which include university departments, research centers, heritage institutions, museums, national heritage agencies and commercial enterprises. Contribution in the development and implementation of an Image-based modeling showcase.
- 01.2003 - **Evaluation of caves in the region of Gamsalp**, funded by the Consortium of Spele-
06.2004 ology, Regensdorf, Switzerland.
Role: Researcher. PI: E. Baltsavias. Image fusion, orthophoto generation.

- 08.2003 - High performance image matching for automatic DTM generation from digital camera data**, funded by the Leica Geosystems GIS & Mapping (LGGM).
08.2004 Role: PI. Follow-up project based on the results of project AIM. Refinement of matching strategy, improving modelling of discontinuities, matching on raw distorted images.
- 02.2002 - Recording and Documentation of the ancient city of Eleftherna in Crete, Greece**, funded by the General Secretariat for Research and Technology, Greece.
08.2002 Role: Researcher. Generation of large virtual images for efficient documentation purposes in archaeological sites.
- 01.2000 - AMOBE II**, funded by the Swiss National Science Foundation.
03.2001 Role: Researcher. Surface and building reconstruction from multiple-view aerial imagery.
- 12.1999 - Mass Balance determination of glaciers with the use of state-of-the-art Remote Sensing methods and a numerical flow model**, funded by the Swiss National Science Foundation.
09.2000 Role: Researcher. Automatic generation and evaluation of DTM's of the Lauteraar glacier.
- 12.1999 - EU Cloudmap I**
03.2001 Role: Researcher. Automatic determination of cloud bottom heights using ground based CCD whole-sky imagers.
- 06.2000 - Mount Everest**, ETHZ internal funding sources.
03.2001 Role: Researcher. Aerial triangulation, orthophoto generation and 3D Visualization of the area around the summit of Mount Everest.

TEACHING EXPERIENCE

- 11.2012 - Visiting Assistant Professor**, Computer Science Dept., Univ. of Crete, Greece.
02.2014 Lectures: (a) HY-471 Digital Image Processing - 7th Sem., (b) HY-474 Multimedia Technology - 8th Sem.
- 10.2006 - Visiting Lecturer**, Aristotle University of Thessaloniki, Greece.
09.2007 Supervision of Diploma and Master thesis. Lectures: (a) Photogrammetric Applications to Architecture and Archaeology - 9th Sem., (b) Digital Photogrammetry - 8th Sem., (c) Seminar in Photogrammetry (within the program of Master studies), (d) Management of Photogrammetric Production (within the program of Master studies).
- 02.2006 - Visiting Lecturer**, University of Melbourne, Australia.
06.2006 Supervision of PhD students. Lectures: Digital Image Processing in Photogrammetry [within the course *451-332 Imaging in the Geosciences*].
- 03.2001 - Teaching Assistant**, ETH Zurich, Switzerland.
10.2005 Supervision of block training (Vertiefungsblock) and Diploma Thesis.
 Student Exercises for the courses: 103-0254-00L Fundamentals of Photogrammetry, 103-0255-00L Photogrammetry II, 103-0256-00L Photogrammetry and GIS, 4. 103-0169-00L Machine Vision, 103-0259-00L Satellite Remote Sensing.
 Lectures: (a) Airborne Laser Scanning (2003, 2005) [within the course *103-0256-00L Photogrammetry and GIS* - 6th Sem.], (b) Digital Photogrammetric Workstations (2003) [within the course *103-0256-00L Photogrammetry and GIS* - 6th Sem.], (b) High resolution satellites (2002 - 2004) [within the course *103-0259-00L Satellite Remote Sensing* - 5th Sem.].

INVITED TALKS

- 11.2019** **sustAGE: A smart system for safety and health for ageing workforce in occupational environments**. Invited talk 2nd Hellenic Conference on Occupational Health and Safety, Athens, Greece.
- 11.2017** **Mobile AR interaction with virtual 3D artefacts**. Invited expert in TA4 meeting - H2020 CSA Virtual Multi-Modal Museum (ViMM), Heraklion, Crete, Greece.
- 06.2016** **Recording and 3D modelling of Cultural Heritage sites - Lessons learnt**. ITN-DCH Summer School: "Cultural Heritage Simulations in Mixed Reality", Heraklion, Crete, Greece.

- 09.2015** **Visual Tracking in Dynamic Scenes.** “Trends in Photogrammetry”: A Colloquium on the occasion of Inaugurating Prof. A. Gruen with the Honorary Doctor Degree, Thessaloniki, Greece.
- 07.2014** **Robust Model-based 3D Upper-body Pose Estimation in RGB-D Sequences.** BMVA Symposium “Vision for Language and Manipulation”, London, UK.
- 09.2013** **From Photogrammetry to Robotic Vision.** Gender Imbalance Meeting, ICT COST Action IC1005: “HDRi - The digital capture, storage, transmission and display of real-world lighting” and at special session for young female highschool students Heraklion, Greece.
- 11.2011** **Vision processing for action recognition,** Tutorial “Joint Action for Social Robotics: How to Build a Robot that Works Together with Several Humans”, within the International Conference on Social Robotics, Amsterdam, The Netherlands.
- 04.2006** **Image matching, point transfer, DSM generation,** International Summerschool “Digital Recording and 3D Modelling”, Aghios Nikolaos, Crete, Greece, organized by ISPRS Commission VI Special Interest Group “Technology Transfer Caravan”.
- 04.2006** **Digital aerial cameras,** International Summerschool “Digital Recording and 3D Modelling”, Aghios Nikolaos, Crete, Greece, organized by ISPRS Commission VI Special Interest Group “Technology Transfer Caravan”.
- 05.2006** **Radiometric characteristics and processing of satellite imagery,** Training course “Mapping and 3-D Information Extraction from High-Resolution Satellite Imagery”, CRC-SI, University of Melbourne.
- 05.2006** **Image pansharpening, image matching, interest operators and feature extraction,** Training course “Mapping and 3-D Information Extraction from High-Resolution Satellite Imagery”, CRC-SI, University of Melbourne.
- 05.2006** **Digital surface model generation,** Training course “Mapping and 3-D Information Extraction from High-Resolution Satellite Imagery”, CRC-SI, University of Melbourne.
- 11.2005** **How to get base geospatial data for SDI from high-resolution satellite images,** Africa GIS 2005 Tutorial, Pretoria, South Africa given by Baltsavias E. (together with: Baltsavias E., Zhang L., Eisenbeiss H., Poli D., Zhang Ch., Remondino F., Fraser C.)

SUPERVISION OF GRADUATE AND UNDERGRADUATE STUDENTS

PhD Thesis

- 2020 A. Papadaki, National Technical University of Athens, Greece. Title: “Detection and 6D pose estimation of multiple objects with challenging surface properties and geometry”.
- 2015 M. Sigalas (Co-supervised with P. Trahanias), Dept. Computer Science, University of Crete, Greece. Title: “Full-body pose tracking under severe occlusions: The Top-View Reprojection Approach”.
- 2006 Kh. Al-Manasir (Co-supervised with C. Fraser and External evaluator at the defence stage in 2007), Geomatics Dept., University of Melbourne, Australia. Title: “Fusion of laser ranging data and imagery for generation of 3D virtual models”.
- 2006 E. Tjahjadi (Co-supervised with C. Fraser), Geomatics Dept., University of Melbourne, Australia. Title: “Splines as geometric constraints in automated image orientation”.

Msc Thesis

- 2021 F. Hasnaoui & L. Mihoubi, Ecole nationale supérieure d’Informatique, Algiers. Title: “Relay service for collaborative virtual environments”.
- 2006 M. Tsacha (Co-supervised with Prof. Patias), Master program Geoinformatics, Aristotle University of Thessaloniki, Greece. Title: “Evaluation of the ICP algorithm and its extensions for the automatic registration of 3D point clouds”.
- 2003 N. Champion (Co-supervised with E. Baltsavias), Master program Digital Photogrammetry - 3D Vision - metric images (mastère Photogrammétrie numérique - Vision 3D - image métrique) as part of the bilateral agreement of Ecole Nationale des Sciences Géographiques (ENSG), Marne la Vallée, France and Inst. of Geodesy and Photogrammetry, ETHZ, Switzerland. Title: “Modeling of breaklines using image data from the airborne digital sensor ADS40 and DSM”.

Diploma Thesis

- 2007 A. Agisilaou and A. Anastasiadis (Co-supervised with Prof. Patias), School of Rural and Surveying Engineering, Aristotle University of Thessaloniki, Greece. Title: “Generation of photorealistic 3D model using Laser Scanner: The test case of Panagia Kera Basilica”.

- 2007 T. Georgantas, C. Stamatopoulos, A. Tsakiroglou (Co-supervised with Prof. Patias), School of Rural and Surveying Engineering, Aristotle University of Thessaloniki, Greece. Title: "Laser scanning and Photogrammetric Application in accurate surveying of monuments and rectified frescoes".
- Practical Training, Project work**
- 2015 S. Kateros, Practical Training, R& D in Virtual Reality Applications, Institute of Computer Science, Foundation for Research and Technology-Hellas, Crete, Greece. Title: "Physical interaction and movement of virtual characters".
- 2015 S. Georgiou, Practical Training, R& D in Virtual Reality Applications, Institute of Computer Science, Foundation for Research and Technology-Hellas, Crete, Greece. Title: "Physical interaction and movement of virtual characters".
- 2015 N. Lytadakis, Practical Training, R& D in Virtual Reality Applications, Institute of Computer Science, Foundation for Research and Technology-Hellas, Crete, Greece. Title: "Reduction of geometric surfaces".
- 2014 S. Savvaki, Msc Project for CS-695 "Directed Personal Studies", Computer Science Dept., University of Crete, Greece. Title: "Automatic methods for solving puzzles solving of scalable complexity using digital image processing methods".
- 2006 D. Koukouviadis and S. Pantoulia (Co-supervised with Prof. Georgoula), MSc Project in Management of Photogrammetric Production, Aristotle University of Thessaloniki, Greece. Title: "Processing of laser data for architectural applications".
- 2003 O. Gut, O. Heller (Co-supervised with E. Baltsavias) 9th semester Blocktraining (Vertiefungsblock), Inst. of Geodesy and Photogrammetry, ETHZ, Switzerland. Title: "Das Potential von IKONOS und Quickbird fuer die genaue Punktbestimmung".

ORGANIZATION OF SCIENTIFIC EVENTS

- 29.09-05.10.2018 Program Committee of CIDOC2018, Crete, Greece.
- 28.06-01.07.2016 Program & Organizing Committee of the Computer Graphics International 2016, Crete, Greece.
- 27.10.2013 Program Committee 1st Workshop on Public Space Human-Robot Interaction "Robots in public spaces: towards multi-party, short-term, dynamic human-robot interaction", held within the International Conference on Social Robotics (ICSR 2013), Bristol, UK.
- 05-11.09.2010 Administrative assistance & organization of the 11th European Conference on Computer Vision (ECCV), Crete, Greece.
- 25-29.04.2006 Program & Organizing Committee of the International Summer School "Digital Recording and 3D Modeling", Crete, Greece.
- 22-27.05.2005 Program & Organizing Committee International Workshop on Recording, Modeling and Visualization of Cultural Heritage, Centro Stefano Franscini, Ascona, Switzerland.
- 22-25.09.2003 Organizing Committee 6th International Conference on Optical Measurement Techniques, Zurich, Switzerland.
- 10-15.06.2001 Organizing Committee 3rd International Workshop on Automatic Extraction of Man-Made Objects from Aerial and Space Images, Ascona, Switzerland.
- 07-09.07.1999 Organizing Committee ISPRS Workshop Commissions V/2 and V/5 on Photogrammetric Measurement, Object Modeling and Documentation in Architecture and Industry, Thessaloniki, Greece.

REVIEWER

- Computer Vision and Image Understanding (Publisher: Elsevier)
- Information Sciences (Publisher: Elsevier)
- International Conference on Robotics and Automation - ICRA (Publisher: IEEE)
- International Conference on Intelligent Robots and Systems - IROS (Publisher: IEEE/RSJ)
- ACM Virtual Reality Software and Technology (Publisher: ACM)
- Robotics and Automation Letters (RA-L) (Publisher: IEEE)
- Frontiers in Robotics and AI: Vision Systems Theory, Tools and Applications
- International Conference on Artificial Intelligence Applications and Innovations (AIAI)
- Computer Graphics International
- EURASIP Journal on Image and Video Processing

- Sensors (Publisher: MDPI)
- Remote Sensing (Publisher: MDPI)
- International Journal of Digital Multimedia Broadcasting

EDITORIAL BOARD

- Special Theme: “Human-Robot Interaction”, Guest editor, ERCIM News, 2018.
- “Recording, Modeling and Visualization of Cultural Heritage”, Taylor & Francis, Balkema:London, 2005.

EVALUATION COMMITTEES

- Evaluation Committee - European Digital Innovation Hubs - EDIHs (Nov. 2020).
- Evaluation Committee - National Initiative for Research, Technological development & Innovation, cycle A, Intervention II (Sept.- Oct. 2017).
- Certified evaluator - Research Promotion Foundation, Cyprus (since 2017).
- Certified evaluator - General secretariat for Research and Technology, Greece (since 2016).
- Phd evaluation committee- “Fusion of laser ranging data and imagery for generation of 3D virtual models”, Khalil Al-Manasir (2007) PhD Dissertation, University of Melbourne.

SCIENTIFIC SOCIETIES

- IEEE Robotics & Automation Society (RAS) (since 2019).
- Group of Experts, EU H2020 ViMM (since 2017).
- Member, Special Scientific Committee of Cartography, Photogrammetry and Remote Sensing of TEE, Greece (since 2008).
- Member, Working Group of the Technical Chamber of Greece on the Monitoring of arbitrary buildings in the Prefecture of East Attica by satellite imagery and automated methods (2007-2010).
- Member, Technical Chamber of Greece (since 2000).
- Member, Working Group on e-Learning of the Technical Commission on Education and Outreach (WG VI/2) of the International Society of Photogrammetry and Remote Sensing (ISPRS) (2004 -2006).
- Member, Working Group on Surface Reconstruction of the Technical Commission on Photogrammetric Computer Vision and Image Analysis (WG III/2) of the International Society of Photogrammetry and Remote Sensing (ISPRS) (2004-2006).
- Member, Working Group on Cultural Heritage Documentation of the Technical Commission on Close Range Sensing: Analysis and Applications (WG V/2) of the International Society of Photogrammetry and Remote Sensing (ISPRS) (2004-2006).
- Member, American Society of Photogrammetry and Remote Sensing (ASPRS) (2002 -2006).

LANGUAGES

Greek (mother tongue)
 English (fluent)
 German (good)
 French (novice)

PUBLICATIONS

The full list of publication can be found in https://scholar.google.com/citations?hl=el&user=nHzAtCMAAAAJ&view_op=list_works&sortby=pubdate