

George Melillos, BSc (Hons), MA, PhD

Nicosia, Cyprus

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A few words about myself...

I am a dynamic and committed individual with a long-standing dedication to the fields of Information Technology, academic teaching, and applied research. With a professional journey spanning:

- **Over 30 years in Information Technology**, covering a wide spectrum of technical and managerial roles.
- **More than 20 years of leadership in IT management**, guiding teams and projects with a focus on innovation, quality, and strategic impact.
- **Over 10 years of academic experience** in multiple universities, contributing to curriculum development, teaching, and academic mentoring.
- **A decade of involvement in research**, participating in national and international projects, producing scholarly work, and promoting knowledge transfer between academia and industry.

Throughout my career, I have cultivated a reputation for clarity of instruction, technical expertise, and the ability to bridge theory with practice. Key areas of strength include:

- **Advanced technical training**, with a specialization in Microsoft technologies and hands-on workshops for professionals.
 - **Instructional design**, creating content-rich programs tailored to diverse learner needs, delivered both in-person and via digital platforms.
 - **Effective communication and mentoring**, fostering engagement and understanding across all levels of expertise.
 - **Technological innovation in education**, applying modern tools to enhance the learning process.
 - **Strategic thinking**, identifying key areas for capacity building within organizations and designing impactful training interventions.
 - **Academic contribution**, with an emphasis on applied research, interdisciplinary collaboration, and real-world relevance.
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Employment History

Cyprus University of Technology

Special Teaching Scientist

February 2017 - Present

- Specialization: Geoinformatics (GEO 565)
- Cartography I (GEO 234)
- Advanced Detection and Navigation Applications (GEO 562)
- Python Programming Language

...continued...

- Databases (GEO_231)
- Computer Programming for Engineers I – C++ (CIV 118)
- Computer Programming for Engineers II - Python (CIV 213)
- GIS Applications (GEO 435)

AUCY - The American University of Cyprus - Adjunct Lecturer

September 2024 – Present

- Compilers (MSE 361)
- Parallel Systems (MSE 362)
- Communications and Networks (CSC 208)
- Using Artificial intelligence (AI) and Machine learning (Public Speaking)

CBS - College of Business Studies, Cyprus - Lecturer

July 2024 – Present

Designed and prepared the course Business Intelligence.

Designed and prepared the course AI and Emerging Technologies in Media.

Cyprus Productivity Center (CPC) - Adjunct Lecturer

July 2015 – Present

- Designed, prepared and delivered the course "Using Artificial Intelligence."
- Python Programming Language
- Digital Marketing
- Information System Security
- Microsoft Excel Advanced
- Microsoft Word

Cyprus Computer Society – Associate IT Trainer

January 2010 – Present

- Python Programming Language
 - Using WordPress
 - Web Editing
 - Image Editing
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AI Lecturer & Public Speaker on Artificial Intelligence and Digital Skills

Various Organizations – Cyprus & International (August 2023–Present)

- **"Using Artificial Intelligence"** – Cyprus Productivity Centre (KE.PA), Nicosia (August 2023 - Present)

Delivered a keynote on the applications of AI in business productivity and automation.

- **"Security of Information Systems and the Internet"** – High School Agias Varvaras, Nicosia (December 2023)

Delivered a keynote on cybersecurity best practices, online privacy, and the risks of cyber threats for students and educators.

- **" Using Artificial Intelligence - Prompt Engineering for ChatGPT"** – Cyprus Productivity Centre (KE.PA), Nicosia (April 2024)

Presented advanced techniques in prompt engineering for optimizing AI-generated responses and automation.

- **"Using Artificial Intelligence"** – Cyprus Workers' Confederation (SEK), Nicosia (May 2024)

Delivered a keynote on AI's role in workforce development and automation in industry sectors.

- **"Digital Skills"** – Cyprus Productivity Centre (KE.PA), Nicosia (April 2024)

Presented key digital skills required in the modern workplace, including AI, cybersecurity, and automation tools.

- **"The Future of AI in Education"** – American University of Cyprus, Nicosia (December 2024)

Delivered a keynote on how AI is transforming education, from smart tutoring to automated assessment systems.

- **"The Future of AI in Education"** – KES College, Nicosia (January 2025)

Delivered a keynote on integrating AI tools for administrative efficiency and innovative teaching methods.

- **"The Future of AI in Education"** – Agia Varvara Lyceum, Nicosia (February 2025)

Delivered a keynote on how AI is transforming secondary education and future-ready skills.

- **"Decoding AI: From Intelligent Machines to ChatGPT and the Future"** – CBS College, Nicosia (March 2025)

Delivered an engaging presentation on the evolution of AI and its implications for society and education.

- **"The Future of AI in Education – Erasmus Project"** – CDA College, Nicosia (April 2025)

Delivered a talk on integrating AI in transnational education through EU collaborations.

- **"Using Artificial Intelligence in the House of Representatives, Republic of Cyprus"** – Nicosia (April 2025)

Delivered an official presentation on AI's role in enhancing public sector innovation and digital governance.

ERATOSTHENES Centre of Excellence - Full-time

- Head of Sector - Researcher A' - Liaison Officer

November 2022 - July 2024

- Information Technology (IT)
- Big Data Analytics,
- Using Artificial Intelligence (YOLO)
- Using Machine Learning
- Remote Sensing,
- GIS,
- Geoinformatics
- Geoinformatics with emphasis on Land Management
- Cartography,
- Space Technology,
- Defence/Security,

Main Research Interests: My research primarily focuses on the detection of buried structures, utilizing advanced remote sensing and geospatial analysis techniques, with a strong emphasis on applying Artificial Intelligence (AI). Additionally, I have a significant research interest in maritime surveillance for Security and safety in Cyprus, leveraging remote sensing, space-based technologies, Geographic Information Systems (GIS), and Big Data Analytics integrated with AI to enhance analytical accuracy and decision-making processes.

Cyprus University of Technology

Postdoctoral Researcher

Maritime surveillance for security and safety in Cyprus uses remote sensing, space, and GIS techniques, and big data analytics uses artificial intelligence.

February 2017 – October 2022

- Remote Sensing,
- GIS,
- Geoinformatics,
- Information Technology (IT)
- Artificial Intelligence

Ministry of Defence (Security Agency), Nicosia (Cyprus)

Information Technology Manager

November 2002 – October 2022

- Plan, organize, direct, control and evaluate the operations of information systems and electronic data processing (EDP),
- Develop and implement policies and procedures for electronic data processing and computer systems operations and development,
- Meet with managers to discuss system requirements, specifications, costs and timelines,
- Develop internal policies and strategies to ensure the technology department runs smoothly, effectively and securely.
- Hire and manage information systems personnel and contractors to design, develop, implement, operate and administer computer and telecommunications software, networks and information systems,
- Monitor changes or advancements in technology to discover ways the organization can gain a competitive advantage
- Control the computer systems budgets and expenditures,
- Provide orientation to new users of existing technology,
- Train staff about potential uses of existing technology,
- Train staff about new and potential use,
- Provide individual training and support on request,
- Provide recommendations about accessing information and support,
- Maintain current and accurate inventory of technology hardware, software and resources.
- Identify, compare, select and implement technology solutions to meet current and future needs
- Representative of Cyprus to various official meetings

University of Cyprus

Scientific Collaborator

January 2016 – April 2022

Teaching:

- Adobe Photoshop
- Advanced Adobe Photoshop
- Web Development using Html and html5
- Databases: Using MySQL
- Web Development: Using PHP
- Python Programming
- Using Excel Advanced

Ministry of Defence, Nicosia (Cyprus) –

Officer (Full Time), June 1991 – November 2002

Logistics and Management Supply Chain Management

Education

Doctor of Philosophy (Ph.D.), 2018

CYPRUS UNIVERSITY OF TECHNOLOGY, Limassol (Cyprus)

Integrated use of Geo-informatics and Space Technologies for the Detection of Underground Structures in Military facilities in the area of Cyprus

Master of Arts - ICT and Education, 2013

University of Leeds, Leeds (United Kingdom)

- Design and evaluation of Web Learn Environments
- Learning with Virtual Worlds
- Issues in ICT and Education
- Language Learning and Teaching with ICT
- Critical Study (Design & Evaluation of Web-based Learning Environments for students with disabilities)

Bachelor of Science (Hons) – Computing, 2009

University of Huddersfield, Huddersfield (United Kingdom)

- Computer-Based Work Environments
- E-Commerce Business and Technology
- Enterprise Systems Development
- Advanced Databases
- Algorithms Process and Data
- Individual Project (An online directory using Google Earth and Google Maps Mashups)

BTEC Higher National Diploma - Computing (Software Engineering), 2009

Omiros College, Athens (Greece)

- Computer Platforms
- Systems Analysis
- Software Construct & Tools
- Computing Solutions
- Quality Management Principles
- Communication Technology
- Advanced Software Engineering Project
- Data Analysis & Database Design
- Visual Programming
- Introduction to Programming
- Database Management Systems
- Multimedia & Internet Development
- Software Engineering Implementation Project
- Human Computer Interface
- Object Oriented Programming

Diploma in Computer Programming/Programmer, 2000

School of Computer, Programmers of Hellenic Army General Staff, Athens (Greece)

Diploma in Military Science, 1991

Non-Commissioned Officer Army Academy, Trikala (Greece)

Teaching Experience

Freelance IT Trainer (Afternoon Part Time job)

January 2000 – Present

I have successfully provided IT Training since 2000, with more than 60,000 teaching hours. I collaborate with the Cyprus Computer Society, the University of Cyprus, the Cyprus University of Technology, and AUCY—The American University of Cyprus, Cyprus Productivity Center. Moreover, I have collaborated with several Computer Learning Centers and Institutes, such as EDITC, Computrain, Computer International, AKTINA, and CompuSuccess.

I have provided GIS and IT trainings in the following courses:

- Remote Sensing,
- GIS,
- Geoinformatics,

- Geoinformatics with emphasis on Land Management
- Cartography,
- Space Technology,
- Defence/Security,
- Information Technology (IT)
- Specialization: Geoinformatics (GEO 565)
- Cartography I (GEO 234)
- Advanced Detection and Navigation Applications (GEO 562)
- Microsoft Office (Word Core, Word Expert, Excel Core, Excel Expert, PowerPoint core, PowerPoint Advanced, Access Core, Access Advanced and outlook).
- Office 365
- ECDL (Module 1 - Concepts of Information Technology (IT), Module 2 - Using the Computer and Managing Files, Module 3 - Word Processing, Module 4 – Spreadsheets, Module 5 – Database, Module 6 – Presentation, Module 7 - Information and Communication).
- Windows XP, Vista, 7, 8, 10
- ECDL Advanced
- Excel for Accountants
- Developing Applications Using Microsoft Excel and VBA
- Developing Applications Using Microsoft Access and VBA
- Cambridge IGCSE ICT
- Cambridge International AS and A Level: Computing
- Visual Basic (version 6, version .NET, version 2005, version 2010)
- ASP.NET
- Java
- Pascal Turbo
- FrontPage
- Adobe Dreamweaver
- HTML5
- Php with MySQL
- Joomla
- Wordpress
- osCommerce
- Adobe Photoshop
- Adobe Flash
- Adobe Illustrator
- Windows Server 2000,2003
- SQL Server
- Google maps
- MapInfo (GIS)
- ArcGIS
- Xml
- Cloud & Grid Computing
- Design and Develop Android Applications
- Gimp
- Kompozer
- C++
- Python
- Train the Trainers -ECDL Web Editing using Adobe Dreamweaver (For 5 years), 2010 -2015.
- Train the Trainers -ECDL Image Editing using Adobe Photoshop (For 5 years). 2010-2015.
- Photoshop Workshop 2016 - Photo Club University of Cyprus.
- Advanced Photoshop Workshop 2017 - Photo Club University of Cyprus.
- Train the Trainers -ECDL Web Editing using Kompozer.
- Train the Trainers -ECDL Image Editing using Gimp.
- Cyprus University of Technology - Special Scientist, Using Databases, 2017.
- Photoshop Workshop 2017 - Computer Science Club University of Cyprus.
- Web Development Workshop 2017 -- Computer Science Club University of Cyprus.

- EU Project Smart Women – 2018 - Planning your business, Digital Marketing, Digital Content, ICT and Online Security and e-Commerce.
- Image Editing using Photoshop - Train the Trainers (Online) – 2020 – Cyprus Computer Society
- Using WordPress (Online) - Train the Trainers – 2020 - Cyprus Computer Society
- Web Editing using Kompozer (Online) - Train the Trainers- – 2020 - Cyprus Computer Society
- Image Editing using Adobe Photoshop - Train the Trainers- (Online) – 2020 - University of Cyprus
- Photoshop Workshop (Online) - 2020 -2021 - Computer Science Club University of Cyprus.
- Python Workshop (Online) 2020 -2021 - Computer Science Club University of Cyprus.
- Python programming Language – Train the Trainers (Online) – 2021 - – Cyprus Computer Society
- C++ programming Language - Train the Trainers - (Online) – 2021 - – Cyprus Computer Society
- Python programming Language – "The STEAMers" program - Youth Board of Cyprus – 2021
- Video Editing using Adobe Premiere – "The STEAMers" program - Youth Board of Cyprus – 2021
- Python programming Language – Pascal English School – 2021
- Excel Advanced - 2021 - Computer Science Club University of Cyprus.

Also I support and assist students as they prepare their undergraduate diploma thesis and postgraduate diploma thesis (MSc).

Research (Funded projects and Activities)

EU Programme	Year	Project Identification or Contract Number	Applicant/ Beneficiary Name	Title
MED Programme	2012	MEDNET	Cyprus University of Technology (CUT)	MEDITERRANEAN NETWORK FOR CUSTOMS PROCEDURES AND SIMPLIFICATION OF CLEARANCE IN PORTS
Interreg Greece-Cyprus	2018	THAL-CHOR 2	Cyprus University of Technology (CUT)	THAL-CHOR 2: Cross-boarder cooperation for the implementation of marine spatial planning
Horizon 2020	2019	EXCELSIOR: ERATOSTHENES	Cyprus University of Technology (CUT)	EXCELSIOR: ERATOSTHENES: Excellence Research Centre for Earth Surveillance and Space Based Monitoring of the Environment
RIF/INFRASTRUCTURE S/1216/0050	2022	CyCLOPS	Cyprus University of Technology (CUT)	CyCLOPS: A Novel Strategic Research Infrastructure Unit for Continuous Integrated Space-based Monitoring of Geohazards
Horizon Europe Twinning project	2022	AI-OBSERVER	ERATOSTHENES Centre of Excellence (ECoE)	AI-OBSERVER: Enhancing Earth Observation capabilities of the Eratosthenes Centre of Excellence on Disaster Risk Reduction through Artificial Intelligence
HORIZON-CL6-2023-GOVERNANCE-01-13	2023	Nostradamus	ERATOSTHENES Centre of Excellence (ECoE)	Data Cube and Copernicus data for Food Security and European Independence
THALIA (2021-2027)	2021	THALIA (2021-2027)	Cyprus Productivity Center (CPC)	THALIA: Foundations of Change, Prosperity, Equality and Development

EU Programme	Year	Project Identification or Contract Number	Applicant/ Beneficiary Name	Title
NextGenerationEU	2023	Make it Digital	Cyprus Productivity Center (CPC)	Digital Skills programs for the general public. The programs are organized in the context of the Digital Skills and E-Government Promotion Project which concerns the training of people of all ages.

Professional Qualifications

- **Chartered Engineer (CEng)**, Engineering Council UK
- **Professional MBCS, BCS** - The Chartered Institute for IT
- **Microsoft Office Specialist (Master)**, Microsoft
- **Microsoft Office Specialist Master Instructor**, Microsoft
- **Microsoft Certified Application Developer (MCAD)**, Microsoft
- **Microsoft Certified Professional (MCP)** - ID: 3326395, Microsoft
- **Microsoft Certified Trainer (MCT)**, Microsoft
- **ECDL Certified Trainer Professional (ECDL CTP)**, Cyprus Computer Society
- **Microsoft Certified Application Specialist (MCAS)**, Microsoft
- **Adobe Certified Associate (ACA) Adobe Dreamweaver CS5**, Adobe
- **ECDL Web Editing Train the Trainer Instructor**, Cyprus Computer Society
- **ECDL Image Editing Train the Trainer Instructor**, Cyprus Computer Society
- **Adobe Certified Associate (ACA) Adobe Photoshop CS**, Adobe
- **ISO/IEC 27001 Lead Implementer**, PECB
- **Certificate in Psychology**, Cyprus Ministry of Education and Culture
- **Certificate in Management and Leadership: The Millennial Challenge in Cyprus (GM75)**, Cyprus Productivity Centre
- **Certified Trainer of Vocational Training (EEK)**, ANAD
- **ITILv4 Foundation** – May 2021

- **EITCA/AI Artificial Intelligence Academy Certification**
Awarded by the European IT Certification Institute (EITCI)
 - Specialization in machine learning, neural networks, and deep learning.
 - **Google AI Essentials Certificate**
 - Expertise in TensorFlow, AutoML, and Google Cloud AI tools
 - **Google Prompting Essentials**
 - **Prompt Engineering for ChatGPT**
 - Vanderbilt University
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Affiliations

Cyprus Computer Society, 2002 – Present

BCS - The Chartered Institute for IT, 2009 – Present

SPIE (Society of Photo-Optical Instrumentation Engineers), 2015 - Present

IEEE Geoscience and Remote Sensing Society Resource Center, 2016 - Present

IEEE (Institute of Electrical and Electronics Engineers), 2018 - Present

The Cyprus Remote Sensing Society, 2019 - Present

Engineering Council UK, 2019 - Present

Cyprus Space Exploration Organisation (CSEO), 2019 - Present

Communication skills

- Extremely organized person;
 - Good abilities for synthetic and global views over concrete situations;
 - End-oriented work capacity;
 - Problem-solving attitude;
 - Responsibility, Self-respect and self-reliance;
 - Strong referential values of fairness, equity and dignity;
 - Ability to establish and maintain good working relations with people of different national and cultural backgrounds;
 - Team spirit;
 - Good communication skills gained through my experience as IT manager.
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Organizational / Managerial Skills

- Detail oriented personality;
- Multi-tasking skills;
- Analytical skills;
- Communications skills;
- Problem solving skills;
- Decision making skills;
- Team skills;
- Leadership (currently responsible for a team of 50 people);
- Good experience in project or team management.

Job-Related Skills

- Ability and a desire to teach and learn
 - Organizational effectiveness
 - Friendliness and the ability to get along with others
 - Leadership capabilities - team building is imperative
 - Continuing personal development
 - Innovative/creative problem solving
 - Motivation, confidence, and willingness to make tough decisions
 - Exceptional communication skills (listening, speaking, reading, and writing)
 - Personal and career planning skills.
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Other Skills

- **Author of two books:** one for ECDL Web Editing – Using Adobe Dreamweaver and another one for ECDL Image Editing – Using Adobe Photoshop which have been approved by Ministry of Education of Cyprus, by Cyprus Computer Society and ECDL. These books are taught in schools (secondary education) in Cyprus.
 - **Academic Editor:** IntechOpen
 - **Referee/Reviewer:** International Journal of Remote Sensing
 - **Referee/Reviewer:** IEEE Access
 - **Referee/Reviewer:** MDPI
 - **Referee/Reviewer:** ISPRS Journal of Photogrammetry and Remote Sensing
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Publications

- I have published over 45 scientific publications in high prestigious journals, edited books and conference proceedings as main author.

- [1] Melillos, G., Kalogirou, E., Hadjimitsis, D. G., Schwarz, E., & Wiehle, S. (2023, October). Monitoring coastal erosion in Cyprus: an analysis utilizing Sentinel-1 SAR data. In Remote Sensing of the Ocean, Sea Ice, Coastal Waters, and Large Water Regions 2023 (Vol. 12728, pp. 164-172). SPIE.
- [2] Kalogirou, E., Melillos, G., Hadjimitsis, D. G., Schwarzcc, E., & Wiehle, S. (2023, October). Maritime surveillance in Cyprus using Sentinel-1 SAR. In Remote Sensing of the Ocean, Sea Ice, Coastal Waters, and Large Water Regions 2023 (Vol. 12728, pp. 173-185). SPIE.
- [3] Melillos, G., Kalogirou, E., Hadjimitsis, D. G., Schwarz, E., & Wiehle, S. (2023, October). Monitoring coastal erosion in Cyprus: an analysis utilizing Sentinel-1 SAR data. In Remote Sensing of the Ocean, Sea Ice, Coastal Waters, and Large Water Regions 2023 (Vol. 12728, pp. 164-172). SPIE.
- [4] Melillos, G., Kalogirou, E., Makri, D., & Hadjimitsis, D. G. (2023, September). Ship detection using SAR images based on YOLO (you only look once). In Ninth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2023) (Vol. 12786, pp. 394-403). SPIE.

- [5] Kalogirou, E., Makri, D., Kountouri, J., Stylianou, T., Themistokleous, K., Papoutsas, C., ... & Hadjimitsis, D. G. (2023, September). Detect plastic litter in Cyprus region using Sentinel-2. In Ninth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2023) (Vol. 12786, pp. 701-707). SPIE.
- [6] Makri, D., Melillos, G., Kalogirou, E., & Hadjimitsis, D. (2023, June). Seagrass mapping in Cyprus area of interest with pixel-based classification. In Ocean Sensing and Monitoring XV (Vol. 12543, pp. 293-299). SPIE.
- [7] Melillos, G., Kalogirou, E., Makri, D., & Hadjimitsis, D. G. (2023, June). Oil spill detection and monitoring in the Cyprus region. In Ocean Sensing and Monitoring XV (Vol. 125 from Space & Geoinformation 43, pp. 176-182). SPIE.
- [8] Makri, D., Melillos, G., Kalogirou, E., & Hadjimitsis, D. G. (2023). Seagrass mapping in Cyprus area of interest with pixel-based image analysis.
- [9] Kalogirou, E., Melillos, G., Hadjimitsis, D., & Makri, D. (2023). Sea Surface Temperature and Ocean Wind Speed Data in the Cyprus region from Sentinel-3 using Sentinel Application Platform (SNAP) and Arc GIS Pro (No. EGU23-16909). Copernicus Meetings.
- [10] Danezis, C., & Melillos, G. "CyCLOPS: A National Integrated GNSS/InSAR Strategic Research Infrastructure for Monitoring Geohazards and Forming the Next Generation Datum of the Republic of Cyprus," International Association of Geodesy Symposia 2021.
- [11] Melillos, G. & Hadjimitsis, D, " Ship Detection using SAR images based on Yolo at Cyprus's Coast," Proceedings Volume 12099, Geospatial Informatics XII; 1209903 (2022) <https://doi.org/10.1117/12.2614526>. Event: SPIE Defense + Commercial Sensing, 2022, Orlando, Florida, United States
- [12] Tzouvaras M., Papoutsas C., Mamouri R. E., Nisantzi A., Mettas C., Evagorou E. , Prodromou M., Loulli E., Melillos G., Akyas E. , Danezis C., Kyriakidis P., Themistocleous K., Schreier G., Kontoes H., Ansmann A., Bühl J., Komodromos G. And Hadjimitsis D. G.," Environmental Monitoring from Space & Geoinformation through the Excelsior H2020 Teaming Project," CEST2021 (2021).
- [13] Fotiou, K., Kakoullis, D., Pekri, M., Melillos, G., Brcic, R., Eineder, M., ... & Danezis, C. "Space-based Deformation Monitoring of Coastal Urban Areas: The Case of Limassol's Coastal Front," (2021).
- [14] Fotiou, K., Kakoullis, D., Pekri, M., **Melillos, G.**, Brcic, R., Eineder, M., ... & Danezis, C. "Considerations and Multi-Criteria Decision Analysis for the Installation of Permanent Infrastructures for Continuous Space-based Monitoring of Natural Hazards," (2021).
- [15] Melillos, G. & Hadjimitsis, D, "Oil spill detection using sentinel 1 SAR data at Cyprus's coasts," Proc. SPIE 11729, Automatic Target Recognition XXXI, 117290M (12 April 2021); doi: 10.1117/12.2585886
- [16] **Melillos, G.** & Hadjimitsis, D. et al. "Exploring the importance for promoting Earth observation in education", Proc. SPIE 11534, Earth Resources and Environmental Remote Sensing/GIS Applications XI, 1153416 (20 September 2020); <https://doi.org/10.1117/12.2574134>
- [17] **Melillos, G.**, Themistocleous, K., Danezis, C., Hadjimitsis, D., Michaelides, S., Jacobsen, S. & Tings, B. (2020). Detecting Migrant Vessels in the Cyprus Region using Sentinel 1 SAR data. Proc. SPIE 11542, Counterterrorism, Crime Fighting, Forensics, and Surveillance Technologies IV, 115420N (20 September 2020); <https://doi.org/10.1117/12.2573744>.

- [18] **Melillos, G.,** Themistocleous, K., Danezis, C., Hadjimitsis, D., Michaelides, S., Jacobsen, S. & Tings, B. (2020). Mashup Tools for Big Data Analysis in Maritime Surveillance. Proc. SPIE 11542, Counterterrorism, Crime Fighting, Forensics, and Surveillance Technologies IV, 1154208 (20 September 2020); <https://doi.org/10.1117/12.2573749>.
- [19] **Melillos, G.,** & Hadjimitsis, D (2020). Detection underground structures in cyprus using Landsat-8 bands. *IGARSS 2020 - 2020 IEEE International Geoscience and Remote Sensing Symposium*, <https://doi.org/10.1109/IGARSS39084.2020.9323447>
- [20] **Melillos, G.,** & Hadjimitsis, D (2020). Detecting underground structures in vegetation indices time series using histograms. Proc. SPIE 11418, Detection and Sensing of Mines, Explosive Objects, and Obscured Targets XXV, 114180D (24 April 2020); <https://doi.org/10.1117/12.2557889>.
- [21] **Melillos, G.,** & Hadjimitsis, D (2020). Using simple ratio (SR) vegetation index to detect deep man-made infrastructures in Cyprus. Proc. SPIE 11418, Detection and Sensing of Mines, Explosive Objects, and Obscured Targets XXV, 114180E (24 April 2020); <https://doi.org/10.1117/12.2557893>.
- [22] **Melillos, G.,** Hadjimitsis, D., Schreier, G., Kontoes, H., Ansman, A., Komodromos, G., Themistocleous, K., Neocelous, K., Michaelides, S., Mamouri, R., Papoutsis, I., Bühl, J., Schwarz, E., Tziortzis, S., Nisantzi, A., Mettas, C., Papoutsas, C., Danezis, C., Tzouvaras, M., Agapiou, A., Kyriakides, P., Kyriakides, N. & Ambrosia, V (2020). The ERATOSTHENES Centre of Excellence (ECoE) as a Digital Innovation Hub for Earth Observation: a world-class Centre capable of enabling innovation and research competence in Earth Observation, actively participating in Europe, the EMMENA region and the global Earth Observation arena. Proc. SPIE 11418, Detection and Sensing of Mines, Explosive Objects, and Obscured Targets XXV, 114180F (24 April 2020); <https://doi.org/10.1117/12.2567070>.
- [23] **Melillos, G., Themistocleous, K., Danezis, C., Hadjimitsis, D., Michaelides, S., Jacobsen, S. & Tings, B.** (2020). The Use of Remote Sensing for Maritime Surveillance for Security and safety in Cyprus. Proc. SPIE 11418, Detection and Sensing of Mines, Explosive Objects, and Obscured Targets XXV, 114180J (24 April 2020); <https://doi.org/10.1117/12.2567102>.
- [24] Melillos, G., Themistocleous, K., & Hadjimitsis, D. G. (2020, August). Detecting underground structures in vegetation indices: MSR, RDVI, OSAVI, IRG, time series using histograms. In Eighth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2020) (Vol. 11524, p. 115241P). International Society for Optics and Photonics. <https://doi.org/10.1117/12.2569930>
- [25] **Melillos, G.,** & Themistocleous, K. (2019, October). Evaluation of several vegetation indices to detect deep man-made bunkers using field spectroscopy. In *Target and Background Signatures V* (Vol. 11158, p. 111580G). International Society for Optics and Photonics. doi.org/10.1117/12.2532462
- [26] **Melillos, G.,** Hadjimitsis, D. G., Michaelides, S. (2019). Combined use of Remote Sensing data and Geographic Information System techniques for detecting underground structures for defense and security applications in Cyprus. Vol. 11012 (37), SPIE Defense + Security, Baltimore, United States (May 2019). doi.org/10.1117/12.2517756.
- [27] **Melillos, G.,** Themistocleous, K., Agapiou, A., Hadjimitsis, D. G. (2019). Evaluating ten spectral vegetation indices for the Identification of Military Underground Structures.

Proc. SPIE 11174, Seventh International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2019), 111741L (27 June 2019); <https://doi.org/10.1117/12.2532788>.

- [28] **Melillos, G.**, et al. (2019). The Use of Field Spectroscopy for the Implementation of Vegetation Indices for the Satellite Remote Sensing Detection of Underground Military Structures in Cyprus. *IGARSS 2019 - 2019 IEEE International Geoscience and Remote Sensing Symposium*, Yokohama, Japan, 2019, pp. 3570- 3573. doi [10.1109/IGARSS.2019.8898822](https://doi.org/10.1109/IGARSS.2019.8898822)
- [29] **Melillos, G.**, et al. (2019). Detecting underground military structures using field spectroscopy. *Military Engineering*. In IntechOpen. ISBN 978-1-78923-953-9. doi: 10.5772/intechopen.86690.
- [30] **Melillos, G.**, Themistocleous, K., Hadjimitsis, D. G. (2018). Copernicus Sentinel opportunities using field spectroscopy to support deep man-made infrastructures in Cyprus. 2 Proc. SPIE 10794, Target and Background Signatures IV, 1079406. doi: 10.1117/12.2325109.
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- [45] *Book: **Melillos George** «Image Editing - Using Adobe Photoshop". – 2014. ISBN: 978-9963-2940-1-5
- [46] *Book: **Melillos George** «Web Editing Using Adobe Dreamweaver" – 2013. ISBN: 978-9963-2940-0-8

*My books: Image Editing - Using Adobe Photoshop and Web Editing Using Adobe Dreamweaver have been vetted and approved by Ministry of Education, by Cyprus Computer Society and ECDL.

Presentations

- I have won an international recognition, attending as a speaker in several conferences/workshops and organizing local and international workshops.
 - **2023** - SPIE Sensors + Imaging Conference, (Sep 2023). In Amsterdam, Netherlands. Subject: Monitoring Coastal Erosion in Cyprus: An Analysis Utilizing Sentinel-1 SAR Data
 - **2023** - SPIE Security + Defence Conference, (May 2023). In Orlando, Florida, United States. Subject: Oil spill detection and monitoring in the Cyprus region
 - **2022** - SPIE Security + Defence Conference, (April 2022). In Orlando, Florida, United States. Subject: Ship Detection Using Sar Images Based on Yolo at Cyprus's Coast
 - **2021** - SPIE Defense + Security conference (**Online**), (12 April 2021). Subject: "Oil spill detection using sentinel 1 SAR data at Cyprus's coasts".
 - **2020** - SPIE Security + Defence Conference (**Online**), (20 September 2020). Subject: "Exploring the importance for promoting Earth observation in education".
 - **2020** - SPIE Security + Defence Conference (**Online**), (20 September 2020). Subject: "Detecting Migrant Vessels in the Cyprus Region using Sentinel 1 SAR data".
 - **2020** - SPIE Security + Defence Conference (**Online**), (20 September 2020). Subject: "Mashup Tools for Big Data Analysis in Maritime Surveillance".
 - **2020** - IGARSS 2020 - 2020 IEEE International Geoscience and Remote Sensing Symposium (**Online**), (31 July 2020). Subject: "Detection underground structures in Cyprus using Landsat-8 bands".
 - **2020** - SPIE Security + Defence Conference (**Online**), (24 April 2020). Subject: "Detecting underground structures in vegetation indices time series using histograms".
 - **2020** - SPIE Security + Defence Conference (**Online**), (24 April 2020). Subject: "Using simple ratio (SR) vegetation index to detect deep man-made infrastructures in Cyprus".
 - **2020** - SPIE Security + Defence Conference (**Online**), (24 April 2020). Subject: "The Use of Remote Sensing for Maritime Surveillance for Security and safety in Cyprus".
 - **2020** - In Eighth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2020) (**Online**), (20 August 2020). Subject: "Detecting underground structures in vegetation indices: MSR, RDVI, OSAVI, IRG, time series using histograms".
 - **2019** - SPIE Security + Defence Conference. (October 2019). In **Paphos, Cyprus**. Subject: "Evaluating ten spectral vegetation indices for the Identification of Military Underground Structures".
 - **2019** - IGARSS 2019 - 2019 IEEE International Geoscience and Remote Sensing Symposium, (July 2019). In **Yokohama, Japan**. Subject: "The Use of Field Spectroscopy for the Implementation of Vegetation Indices for the Satellite Remote Sensing Detection of Underground Military Structures in Cyprus".
 - **2019** - SPIE Security + Defence Conference (April 2019). In **Baltimore, United States**. Subject: "Evaluation of several vegetation indices to detect deep man-made bunkers using field spectroscopy".

- **2019** - SPIE Security + Defence Conference, (April 2019). In **Baltimore, United States**. Subject: "Combined use of Remote Sensing data and Geographic Information System techniques for detecting underground structures for defense and security applications in Cyprus".
- **2019** - SPIE Security + Defence Conference, (October 2018). In **Berlin, Germany**. Subject: "Copernicus Sentinel opportunities using field spectroscopy to support deep man-made infrastructures in Cyprus".
- **2018** - SPIE Security + Defence Conference, (April 2018). In **Orlando, Florida, United States**. Subject: "Thermal remote sensing approach combined with field spectroscopy for detecting underground structures intended for defence and security purposes in Cyprus".
- **2018** - Sixth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2018). In **Paphos, Cyprus**. Subject: "Detecting underground structures in Cyprus using field spectroscopy".
- **2017** - SPIE Security + Defence Conference, (September 11 – 14). In **Warsaw, Poland**. Subject: "Detection of underground structures using UAV and field spectroscopy for defence and Security in Cyprus".
- **2017** - SPIE Defense + Security conference, (April 9 – 13). In **Anaheim, California, USA**. Subject: "Using field spectroscopy combined with synthetic aperture radar (SAR) technique for detecting underground structures for defense and security applications in Cyprus".
- **2017** - Fifth International Conference on Remote Sensing and Geoformation of Environment' (RSCy2017), (April 2017). In **Paphos, Cyprus**. Subject: "Using field spectroscopy combined with synthetic aperture radar(SAR) technique for detecting underground structures for defense and security applications in Cyprus".
- **2016** - SPIE Security + Defence Conference, (September 26- 29). In **Edinburgh, Scotland**. Subject: "Importance of using field spectroscopy to support the satellite remote sensing for underground structures intended for security reasons in the eastern Mediterranean region".
- **2016** - SPIE Defense + Security conference, (April 17 – 21). In **Baltimore, USA**. Subject: "Integrated use of field spectroscopy and satellite remote sensing for defence and security applications in Cyprus".
- **2016** - Fourth International Conference on Remote Sensing and Geoformation of Environment'(RSCy2016), (April 2016). In **Paphos, Cyprus**. Subject: "Integrated use of field spectroscopy and satellite remote sensing for defence and security applications in Cyprus".
- **2015** - Esri European User Conference (EUC), (October 14-16). In **Salzburg, Austria**. Subject: "Exploring the Importance of Integrating GIS with Satellite Remote Sensing and Field Spectroscopy for Military & Security Applications in Cyprus".

Further Training, Courses, Seminars and Conferences

- Microsoft Office Specialist Nicosia, Computer International
- Introduction to Visual Basic. NET Programming with Microsoft. NET Nicosia, Netway
- Developing Microsoft ASP. NET Web Applications using Visual Studio Nicosia, Netway
- Developing XML Web Services Microsoft ASP. NET Nicosia, Netway
- Programming a Microsoft SQL Server 2000 Database Nicosia, Netway
- Microsoft Certified Application Developer (MCAD) Nicosia, Netway
- Train the Trainer Athens, Infotest
- Adobe Photoshop Athens, Intergraphics College
- ArcGIS Nicosia, Marathon Data Systems
- GIS MapInfo v. 8.5 Thessaloniki, GeoInfo
- MCT Summit 2007 Switzerland, Microsoft
- MCT Summit 2008 Germany, Microsoft
- Microsoft Certified Application Specialist (MCAS) Athens, Infotest
- GIS MapInfo v. 9.5 Limassol
- Hacking Seminar Technical Work Group 2008 Rome
- ECDL Advanced Nicosia, Cyprus Computer Society
- International Information Security Conference & Workshops 2009 Nicosia, Cyprus Infosec
- Virtualisation and Security 2009 Nicosia, Cyprus Infosec
- Mobile Computing Security 2009 Nicosia, Cyprus Infosec
- Implementing an Identity & Access Management 2009 Nicosia, Cyprus Infosec
- ECDL CTP Nicosia, Cyprus Computer Society
- Hacking Workshop Technical Work Group 2010 Rome
- Information Security: The Cloud and Beyond Nicosia, Cyprus Infosec
- Cloud Computing Nicosia, Cyprus Infosec
- The Future of Information Security: New Priorities, New Skills and New Technologies Nicosia,
- Cyprus Infosec
- European Projects Special Interest Groups Nicosia, Cyprus Computer Society
- Cyprus National Security Authority Conference "Information Security management" Nicosia, Ministry
- of Defence

- 2nd Open Hack Day Event 2012: Mobile Security Nicosia, Cyprus Computer Society
- Train the Trainer -Computerized Accounting Using Sage Software
- ArcGIS Advanced Level - Marathon Data System - Greece – 2013
- Microsoft Conference 2014 – Nicosia -2014
- Second International Conference on Remote Sensing and Geoinformation of Environment – Paphos
 - 2014
- Oracle Open Day - Nicosia -2014
- 6o Infocom Cy - Nicosia -2014
- Third International Conference on Remote Sensing and Geoinformation of Environment – Paphos –
- March 2015
- Microsoft - Empowered Education - new skills for new world of labor - March 2015
- Cyprus INFOSEC 2015 - Open Source Intelligence (OSINT) - Oct. 2015
- Computrain - Cybercrime Security Forum - Nov. 2015
- ISACA - Cybersecurity Nexus CSX at Microsoft Innovation Center - Feb. 2016
- 6th Conference and Exhibition of Information, Technology and Telecommunications for Cyprus
- businesses – Nicosia -May 2016
- ISO 27001 - Lead Implementer – Nicosia -June 2016
- Establishing a National Cyber Security Authority in order to fight against cyber-attacks -The Israeli
- Case – June 2016
- Using Copernicus Data: Sentinel 1 & Sentinel 2, with software ERDAS IMAGINE ver.2016 της
- HEXAGON Geospatial – Athens – June 2016
- Associates' Event: G.R.C in the Digital Age – Limassol – Nov. 2016
- 20410 – Installing and Configuring Windows Server 2012
- 20411 – Administering Windows Server 2012
- 20412 – Configuring Advanced Windows Server 2012 Services
- ArcGIS - User Conference - Athens - May 2018
- InfoCom Security Cyprus 2018 - Nicosia - May 2018

- Best practices of IT Service Management Systems (ITSMS) based on ISO/IEC 20000 - Nicosia -
 - June 2018
 - 8th Information & Communication Technology Conference & Exhibition - Nicosia - June 2018
 - 3th Security Project Cyprus - Securing Smart cities and buildings - Nicosia - October 2018
 - DDoS War Game Event - Nicosia - October 2018
 - 10th INFOCOM CYPRUS CONFERENCE Nicosia - October 2018
 - 2nd InfoCom Security Cyprus Conference 2019 -Next Generation Cyber Security 14 May2019 -
 - Filoxenia Conference Centre.
 - Cisco Experience - Nicosia - 23 May 2019.
 - 9th Information and Communication Technology Conference & Exhibition 07 June 2019 - Nicosia.
 - 11th INFOCOM CYPRUS CONFERENCE Nicosia - October 2019
 - 11th ESA Training on Earth Observation 2021 (online) – March 2021
 - ITILv4 Foundation – May 2021
 - Total Business Transformation 2021 Conference – 26-27 May 2021 - online
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Contributions to the University

Academic

- Work with and for the students and colleagues
- Prepare Text-Books for PostGraduate and Undergraduate Students
- Create a small cluster of PhD and Post-Doc students of high performance
- Assist the Department to achieve its' goals

Research

- Continue to attract external funding from various sources and excel research
- Foster collaboration with leading institutions in Europe and beyond
- Work for the extroversion of the University by involving stakeholders / Industry & SMEs / policy makers

- Further publications in scientific journals
- Seeking excellence.....

Administration

- Assist in the administration of the Department, School, and the University (e.g. research)
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Languages

- Greek
- English