

CURRICULUM VITAE OF:

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URL:

http://www2.env.aegean.gr/labs/Remote_sensing/EnglishBlock/Remote_sensing2.htm



POSITION

Professor emeritus, of Geomatics (Geospatial Information Science and Technology) at the University of Aegean, Department of the Environment, former Director of Laboratory of Remote Sensing & GIS.

EMPLOYMENT

December 17, 2015 – : Professor emeritus University of Aegean, School of the Environment, Greece.

September 1, 2015 - : Retired from University of Aegean, Department of the Environment, Greece.

1989 – August 31, 2015: Professor, of Topographic Mapping at the University of Aegean, Department of the Environment, Greece.

2011 Spring semester: Visiting Professor at Chapman University, Orange, CA, USA, Coordinator of an interdisciplinary research team from several US and International Universities, Institutes and Organizations for Fire management projects.

1995 – Today Initiator and Director of Remote Sensing & GIS Laboratory (RSLUA), at University of Aegean.

1998 – 2001 Initiator, chairman and director of studies of Department of “Environmental Cartography”, at the University of the Aegean.

Spring/Fall 1987: On a sabbatical leave

(a) working as a visiting professor with the National Technical University of Athens, teaching Remote Sensing and Photogrammetry.

(b) Part time professor at the School of Topography of the Army Geographical Service of Greece teaching Photogrammetry and Remote Sensing.

1984 - 1989: Professor (with tenure) of Civil and Surveying Engineering at the California State University, Fresno USA.

1980 - 1984: Associate Professor of Civil and Surveying Engineering at the California State University, Fresno USA.

1978 - 1979: Part time Instructor of Photogrammetry and Remote Sensing at South Seattle Community College. Seattle Washington.

1975 - 1979: Research and Teaching Assistantship Post Graduate Student, worked in several Photogrammetric Research projects at the University of Washington. Seattle Washington.

1974 - 1975: Part time Lab Instructor of the Surveying Technology School of Athens (KATE). Licensed Contractor of Public Works in Greece.

1973- 1974: Surveying Engineer of the City of Athens Greece. Worked in the Road Construction Division and Land Surveying Division.

1972 - 1973: Self employed licensed Land Surveyor in Greece. Worked in topographic mapping, triangulation, staking, and cadastral survey projects.

EDUCATION

1978 - 1979 Ph.D. in Civil Engineering (Photogrammetry). University of Washington, Seattle, WA.

1976: Ph.D. Candidate, University of Washington.

1975 - 1976: Masters of Science in Civil Engineering (Photogrammetry). University of Washington, Seattle, WA.

1969 - 1971: Diploma in Rural and Surveying Engineering, with honors ranking the first among the graduates. National Technical University of Athens Greece (Polytechnion).

1967 - 1969: Aristotelion University of Thessaloniki Greece, full time student of the Rural and Surveying Engineering program, then transferred to the National Technical University of Athens Greece (Polytechnion).

CERTIFICATES

1986 Certified Photogrammetrist by the American Society for Photogrammetry and Remote Sensing.

AWARDS

1993 "Timis Eneken" Army Geographical Service of Greece.

1982 Outstanding Professor Award. California State University, Fresno, School of Engineering.

1971 Hrysovergon Prize as having the highest rank among the graduates. National Technical University of Athens Greece (Polytechnion).

PERSONAL

Born: January 2, in Komiaki of Naxos Greece.

Marital Status: Married with three children

Health: Good, no physical limitations.

Citizen: USA

TEACHING EXPERIENCE

1974 - 1975 Part time laboratory instructor of Surveying Technology School of Athens Greece (KATE).

1978 - 1979 Part time instructor at the South Seattle Community College. Initiator and organizer of lab and instruction. Teaching photogrammetry & Remote Sensing in three levels:

(a) Remote Sensing and Photointerpretation.

(b) Basic Photogrammetry.

(c) Phototriangulation.

1980 - 1989 Has organized the material and he has taught the following courses at California State University, Fresno.

1. SE11 Plane Surveying (Basic Surveying).

2. SE21 Photographic Processes in Engineering.

3. SE23 Photogrammetry (basic photogrammetry).

4. SE34 Surveying Computations.

5. EE70 Fortran 77 Computer Programming.

6. SE123 Advanced Photogrammetric Instrumentation.

7. SE125L Advance Photogrammetry Lab.

8. SE126 Map Design and Reproduction (with emphasis on automated mapping, digital terrain modeling and Geographic Information Systems).

9. SE135 Advanced Surveying Computations (advanced application of least-squares, optimum algorithm analysis of applications in surveying and photogrammetry).

10. SE140 Remote Sensing on Earth's Resources Surveying.

11. SE161 Data collector interface

12. ENGR205 Computing in Engineering Analysis (Post Graduate course involving numerical methods and computer applications in engineering).

13. ENGR230 – Non Topographic Photogrammetry (Post graduate)

Fall 1987 At Army Geographical Service of Greece was assigned to teach Photogrammetry and Remote Sensing.

Spring/Fall 1987 At National Technical University of Athens was assigned to teach a General Remote Sensing course and Stereophotogrammetry.

1989 – August 31, 2015 At the University of the Aegean Department of Environmental Studies, has taught Topographic Mapping, Photogrammetry, Remote Sensing, Geographic Information Systems and Computer Programming. Has developed material and is teaching the following courses:

A. Undergraduate program

1. Topographic Mapping
2. Photogrammetry and Remote Sensing
3. Cartography and GIS
4. Remote Sensing for the Environment
5. GIS for the Environment.
6. Computer Programming (VISUAL BASIC)
7. Independent study research in Remote Sensing
8. Independent study research in GIS
9. Senior projects

B. Post Graduate program

1. Methods and Techniques (Numerical methods and computer applications in Environmental Studies Research).
2. Sampling and Processing Techniques.
3. Land cover applications of Remote Sensing
4. Geographic Information Systems (GIS)
5. Geographic Information & Analysis
6. Photogrammetry
7. Applications of Advanced Information Technology for the Environment
8. Independent study research.
9. Ph.D. projects.

C. Educational seminars lectures.

Offers educational seminars and lectures for on campus and off campus participants in the following areas:

1. Remote Sensing for the Environment
2. GIS for the Environment
3. Mapping by photogrammetry
4. Non topographic photogrammetry
5. Digital image processing
6. Digital mapping
7. Digital terrain modeling
8. Computers in education, simulation experiments.
9. Computers and efficient algorithms
10. Microelectronics in education.

He is responsible on the following areas at the Department of Environmental Studies:

1. Representative in the University Committee for the Information Technology 1989 - 1997
2. Initiator and developer of the Summer practical experience and training for the student Co-Op program (Scientific leader 1989 - 1994)
3. Member of the Committee for the connection between the University and the Industry (1989 - 1994).

He has the responsibility of the development, organization and functioning of the following laboratories:

1. Laboratory of Remote Sensing and GIS, being initiator, director
2. Laboratory of Photogrammetry
3. Basic computer lab and faculty computer lab.

Those laboratories are equipped with high technology equipment running on WINDOWS-... and UNIX systems such as: ArcGis (25 licenses), Geomedia (11 licenses), ERDAS/IMAGINE (17-licenses), ER-Mapper, IDRISI Lab kit, 2 Intergraph Image Stations for softcopy photogrammetry, there are also high precision instruments for remote sensing such as radiometers, for surveying and photogrammetry and there was a satellite receiving station of HRTP, NOAA/AVHRR images (1995 – 2000). All laboratories are connected to a network with Internet access.

1993 - 2010: Organized all Summer schools at the University of Aegean in cooperation with the University of Southern Maine and with Dr. Irwin Novak on «Environmental Geology». This course was offered at first time in 1993 and is offered there after in every second year with great success. Each time more than 10 USA students attended the course.

1993 – 2000 Coordinator of the program: “School for International Training (SIT)”, responsible to bring every semester 10 – 15 students from USA to attend a six week program of studies at the University of the Aegean, Mytilene and then follow field studies on specific topics at various places in Greece.

EXTENDED UNIVERSITY PROGRAM ON ENVIRONMENTAL CARTOGRAPHY.

This program was designed and initialized by professor Hatzopoulos by joining forces from the Department of Environmental Studies, which is responsible for the BS degree and the Department of Geography at the University of Aegean. This program offers a B.S. degree in Environmental Cartography and offers certificates for people from the industry they want to update their knowledge in the field of Geospatial Information Technology and Environmental Applications. Courses are offered through regular classrooms, and through distant learning facilities.

Has the responsibility of the following program modules:

A. REMOTE SENSING MODULE

T.1 Introduction, Electromagnetic Energy, Optics, Sensors, Photographic Methods

T.2 Digital Images, Processing Algorithms, Classification

T.3 Photointerpretation, Expert Systems, Linear Correlation

T.4 Special Topics on Remote sensing

T.4.1 Water Ecosystems

T.4.2 Land Cover Classification

T.4.3 Environmental Planning

T.4.4 Natural Hazards

T.4.5 National Defense

T.4.6 Meteorology

T.4.7 Geology, Geomorphology

T.4.8 Atmospheric Pollution

T.4.9 Hyperspectral Remote Sensing

B. PHOTOGRAMMETRY MODULE

P.1 Introduction, Geometry of Images, Flight Planning

P.2 Digital Photogrammetry: Mathematical Bases, Aerial Triangulation, Softcopy Photogrammetry, Automated image matching algorithms, Orthophotography

P.3 Photogrammetric Production of Manuscript map documents on soft copy photogrammetry systems.

P.4 Special Topics on Photogrammetry

P.4.1 Non Topographic Photogrammetry, Industrial Applications

P.4.2 GPS – An Introduction

P.4.3 Photogrammetric Mapping of Monuments

P.4.4 Photogrammetric Mapping of dynamic objects and Robot Vision

P.4.5 Calibration of Cameras

P.4.6 National defense Applications

C. GENERAL EDUCATION MODULE

E.2 Information Sciences: E.2.1 Computer Programming – VISUAL BASIC

E.2.2 Computer Programming – C++

E.2.3 Object Oriented Programming

E.4 Drafting E.4.1 Freehand Drawing

E.4.2 Topographic Drawing

E.2.4 Algorithmic and Mathematical Bases in Geomatics

Has taught the following courses in the Environmental Cartography program:

T.1 Introduction to Remote Sensing

- P.1** Introduction to Photogrammetry
- P.2** Digital Photogrammetry
- P.3** Photogrammetric Production of Manuscript map
- P.4.1** Non Topographic Photogrammetry, Industrial Applications
- P.4.2** GPS – An Introduction
- E.2.1** Computer Programming – VISUAL BASIC
- E.2.3** Object Oriented Programming
- E.4.2** Topographic Mapping
- E.2.4** Algorithmic and Mathematical Bases in Geomatics
- E.4.2** Topographic Drafting

He is responsible on the following areas at the Department of Environmental Studies:

1. Representative in the University Committee for the Information Technology 1989 - 1997
2. Initiator and developer of the Summer practical experience and training for the student Co-Op program (Scientific leader 1989 - 1994)
3. Member of the Committee for the connection between the University and the Industry (1989 - 1994).

2012 – Today, In cooperation with the Department of Mediterranean Studies at the University of the Aegean on the program: “E-learning in Archaeometry” is teaching the following courses through Internet:

1. Remote Sensing Methods
2. GIS in Archaeology & New visualization advances in the Geographical Space of Archaeology.
3. Data bases and the use of GIS in Archaeoastronomy.
4. From ancient observatory Astronomy to Geodesy and GPS.

RESEARCH EXPERIENCE

2015 - : Participated in the program of Education update for graduates (PEGA) on Geoinformation (principal investigator Dr. M. Vaitis). Has developed material for this Internet course covering the topic: Collection of geographic information / GPS.

2015 - : Participated in the program of Education update for graduates (PEGA) on Environmental management – modern tools (principal investigator professor D. Charalabopoulos). Has developed material for the Internet course covering the topic: GIS.

2014-2015: Participated in the program Open Academic Courses: Creation of a digital repository for the use of students of other Departments and for the use of the wider community (principal investigator professor J. Matchinos). Has developed video lectures and corresponding material for the following semester classes:

1. Introduction to Topographic Mapping and GIS
2. Introduction to Remote Sensing
3. Environmental Applications of GIS

2012-2015: Participated in the program Polynesia in cooperation with the Department of Mediterranean studies (principal investigator professor J. Liritzis). Developed material and offers the following Internet chapters:

1. E- Learning in Archaeometry New Technologies, Maintenance and Management:
GIS in Archaeology and New Visualization advances in the Geographical Space of Archaeology.
2. Methods of detection of buried monuments in land and sea:
Remote Sensing Methods.
3. Archaeoastronomy around the world – learning specialized digital applications:
Data bases and the use of GIS in Archaeoastronomy
From ancient observatory Astronomy to Geodesy and GPS.

2013-2015: Partner in the Excellency program “AEGIS: Informatics System to prevent and Manage Forest Fires” Principal investigator K. Kalabokidis.

2011- 2015: Partner in the Thalys program **GreTIA** «GREEN TRANSPORT IN THE ISLAND AREAS» Principal investigator Amalia Polydoropoulou, Department of Shipping, Trade and Transport.

2011- 2015: Partner in the Thalys program **ISLA** «LEVEL CHANGES ON THE ISLAND BEACHES OF THE AEGEAN ACHIPELAGO» Principal investigator Andonis Velegrakis, Department of Marine Sciences.

2009 – 2014 : Principal investigator, “Prototype Land Planning of Drymalias Municipality Territory to reveal and protect its physiognomy”, Municipality of Drymalia Naxos. Budget: 235000 Euros.

2006 – 2009 Partner #11, Interreg III B Archimed: New forms of territorial governance for the promotion of landscape policies in the field of water resources management at water territories **NetWet 3 Project**.

2005- 2007: Partner in the program: Euromed Heritage “Defence Systems on the Mediterranean Coasts” (DSMC), project financed by European Union and it is part of an effort of scientific research on the preservation of the cultural heritage in the countries of the Mediterranean Basin.

2005 – 2007: Principal investigator of the project: Development of a model for decision support of spatial urban planning using GIS, multi criteria evaluation and cellular automata. This project is supported by the University of the Aegean Research Committee.

2005 - 2010 Principal investigator of the project: Integrated planning for safe use of urban liquid and sediment wastes for agriculture with the aim of remote sensing and Gis. This project is supported by the Greek General Secretariat for Research and Technology (PENED - 03ΕΔ 60) and by the municipality of Messologi Greece with an initial budget of about 60000 Euros.

2001- 2004: Partner in the program: Automated Fire and Flood Hazard Protection System AUTO-HAZARD PRO. Supporting source: EU, (~ 2.0 million Euro budget). Proposal #: EVG1-2000-00536.

1999 – 2003: Partner in the program: System for Marine Environmental Education in the Mediterranean – SEAM. Supporting source: ECOS – OUVERTURE, EC, DG XVI, DG IA.

1998 – today: Cooperation with NASA (USA) on the research program “Quality assessment of the marine environment using SeaWiFs satellite images”.

1998 – today: Cooperation with ESA (European Space Agency) on the research program “Water Quality Assessment and Air Pollution Monitoring Over Sea Areas Using MERIS Data from the satellite ENVISAT”.

1998 – 2005: Participation in a consortium of European research institutes, which had a five year contract expanded to seven years with EUMETSAT (European Meteorological Satellites) for the development of operational applications of satellite data for the next generation satellites (SNG), within the Land SAF programme (Land Satellite Application Facilities).

1998 – 2001: Project Leader for the project “Extended University program of Environmental Cartography” financed by the Ministry of Education by 1.5 million Euro.

1997 - Project Leader for the project «Cadastral surveys to Fill out declarations according to the integrated system of checking and management » Financed by the Department of Agriculture in the Prefecture of Lesbos and the Prefecture of Chios Greece.

1996 - 1998: Subcontractor of the University of Cyprus research team on the project: «The Mediterranean DUSt Experiment - MEDUSE» Participants on this project are several Greek and European Institutions. Contract No. ENV 4-CT95-0036 (DG12 DTEE).

1996 - 2001 Coordinator of the project «Geo-Information Systems and Electronic Communication Networks as Instruments for Environmental Education» a COMENIUS action 3.1 program in cooperation with Naxos Academy, Universita’ degli Firenze, Universitat Hannover, Universitat de les Illes Balears and Universitat Gotingen. <http://nibis.ni.schule.de/~trianet/home.htm>

1996 - 1999 Partner in the project «Investigation on the contribution of the Remote Sensing to the detection of the type and the quality of the vegetation and crop assessment». Financed by the EC Enterprise Program of Research and Technology II, Human Networks for Diffusion of R & T.

1996 - 1997 Project Leader for the project «Seasonal Spectral Characteristics of Land Cover for the Mediterranean Countries» Financed by the University of the Aegean Research Committee by 10-KECU.

1996 - Project Leader for the project «Study for GIS development in the Prefecture of Chios Greece» Financed by the Prefecture of Chios Greece.

1995 - 2000 Scientific leader of the University of the Aegean research team on the project : «Optimization of the Procedures on the Design and the Study of Harbor Works», This project was administered by the University of Thrace Greece and the total budget is 513-KECU. The part of the project which was done at the University of the Aegean involved precise 3-D measurements of the sea waves by close range photogrammetry.

1995 – today: Educational and Research cooperation with USA, School for International Training, University of Southern Maine.

1994 - 1996: Project Leader for the project «Sea Environment Quality Assessment for the Greek Islands Located in the Less Favored Areas of the Northern Aegean Using Satellite Images». Total budget 18KECU, financed by the Ministry of the Aegean.

1993 - 1996: Scientific leader of the Greek research team on the project: «Aerosol Climate Parameters over the Mediterranean Area from Joint Ground and Satellite Data» This project was administered by the Italian partners, the Greek budget was 51-KECU. Contract: EU:ENVIRONMENT, Contract: DG-XII EV5V - CT93 - 0260.

1994 - 1997: Project Leader for the project: «Correlation of Digital SPOT/P Satellite Stereo Images to Measure Elevations for Maps 1:50000». Financed by the Greek Secretariat of Research and Technology by 30-KECU under the project «PENED» Contract: 91 ED 609.

1994 - 1995 Project Leader for the project «Precise Mapping of the Surface of the Sea Environment by Satellite Images and Ground Photographs» Financed by the University of the Aegean Research Committee by 10-KECU.

1993 Project Leader for the project «Construction of Maps Regulation: 2078/92», use of GIS technology to produce thematic maps for the Greek Ministry of Agriculture in the island of Lesbos.

1992 - 1994 Project leader of the Greek research group of the project: "Monitoring for Protection of the Marine Environment Using Satellite Images of Landsat TM and AVHRR". This project was jointly supported by the Greek General Secretariat of Research and Technology and the British Council with a budget of about 24000 ECU.

1989 - 1992 Principal investigator of the project: Digital image Processing of Landsat TM and SPOT for 1:50000 Map Revision. This project was supported by the Greek General Secretariat for Research and Technology and by the Greek Army Geographical service with an initial budget of about 70000 ECU.

1991 - 1993 Land cover classification of olive trees in the Greek islands using Landsat-TM images. This project is performed in cooperation with the Sector of Ecosystem Management of the Department of Environmental Studies and it is sponsored by the Ministry of Agriculture.

1991 -1992 Developed the GIS data base and produced all thematic maps for the project: «New site selection to move the electric power plant in the Greek island of Lesbos» This project was sponsored by the Mayor of Mytilene and the local authorities.

1989 - 1990: Participated and completed the image processing part in the research project: Training Simulator for Combating Oil Pollution. This project was supported by the EEC/DGV/COMETT, contract No. 88/3/1500/D-1.

1986 - 1988: Supported by the CSUF School of Agriculture, to develop a photogrammetric mensuration system to monitor the growth of feet and legs of young horses. This system is under development and it is based on monoscopic photography. Developed facilities for joint lab exercises between students of the School of Engineering and students of the School of Agriculture using photogrammetry in animal mensuration.

1986 - 1988 Granted together with two other professors of the CSUF Surveying Engineering Program a research project to continue the development of a standardized system for data collection, storage and retrieval to be used for computerized multipurpose land records information system (LIS). Completed the data base of the system and installed it on the VAX-785 computer owned by the School of Engineering.

1985 - 1986 Granted together with two other professors of the CSUF Surveying Engineering Program a research project to develop standardized system for data collection, storage and retrieval to be used for computerized multipurpose land records information system (LIS).

1980 - 1985 Was supported with several grants by the School of Engineering at California State University, Fresno where he made the following developments:

1984-1985 Preliminary study on application of photogrammetric methods in robot vision.

1983-1984 Developed two control fields for non-metric camera calibration.

1982-1983 Preliminary study on photogrammetric mapping of the footprints for police crime investigation.

1981-1982 Preliminary study on predicting animal weight by close-range photogrammetry.

Self-motivated without financial support made the following research and developments:

1. Investigation of camera calibration by the Finite Element Method.

2. Photogrammetric construction surveys by a 35 mm camera. Developed an analytical close-range photogrammetric system which was tested on construction surveys and was found to provide highly accurate results.

3. Computer in Engineering Education. Has developed and tested specific assignments to help the student obtain theoretical and practical experience in developing and running appropriate computer programs based on optimum algorithms in the following areas of application:

(a) Computing in Engineering Analysis (graduate)

- (b) Surveying Computations (sophomore)
- (c) Advanced Surveying Computations (junior)
- (d) Digital Terrain Modeling (senior)
- (e) Computer Programming with FORTRAN77 (sophomore)
- (f) Data Collector Interface (junior)

1975 - 1980

- 1.** Close-Range Photogrammetry for Biomedical Applications. Sponsored by the National Science Foundation with principal investigators professor S.A. Veress and F. Lippert M.D. Designed a special photogrammetric instrument, capable to perform plotting for biomedical applications. Research associate in mapping the amputees stump, mapping dental casts, and mapping for facial studies.
- 2.** Photogrammetric Monitoring of a Gabion Wall. Sponsored by the Washington Highway Department with principal investigator professor S.A. Veress. Contributed to modifications to the used method which gave results compatible to Inclinometer.
- 3.** Photogrammetric Monitoring of the Water Dams. With principal investigator Dr. M. Hou. Contributed to the project design, data acquisition, data processing.
- 4.** X-ray Photogrammetry. Principal investigator was professor S.A. Veress and F. Lippert M.D. Developed a new method for resection and intersection in X-ray photogrammetry.
- 5.** Combination of Aerial and Terrestrial Photogrammetry in Monitoring of Structures. Sponsored by the Washington Highway Department with principal investigator professor S.A. Veress. Developed a universal method in structural monitoring by photogrammetry, obtained high precision by using the bundle method and introducing optimum computer use.

PROFESSIONAL EXPERIENCE

1989 – Present: Consultant on Topographic Mapping and Environmental Applications.

1984 – 1989: Initiator and vice president of HHM Consulting Engineering, a California based firm developing software for Topographic Mapping.

1980 - 1989: Consultant in Photogrammetry and Remote Sensing, GIS, Surveying and Computer Applications. Completed several contracts with various firms and agencies as follows:

1987 - 1988 Aerial Data Services, Tulsa Oklahoma, installed on a PC-computer system the software package: NAXIAPC for aerial triangulation.

1986 - 1987 Pacific Aerial Surveys Company (PASCO Corporation) Tokyo Japan Branch, Developed and installed on a PC-AT computer system a complete software package for Analytical Aerial Triangulation with Bundle Block Adjustment. The contract included visit to Tokyo Japan and one week training of the PASCO corporation personnel to operate the software.

1987 Koogle and Pouls Engineering, Inc. New Mexico, prepared ready for installation software packages

(a) Least squares adjustment of plane networks

(b) Least squares adjustment of level networks.

1985 - Summer Pacific Gas and Electric Company (PG and E) Fresno Office, developed interface software for communication of surveying data between HP/41CX and IBM/PC, modified SURVEYING PAC module of HP/41CX.

1985 - 1986 Greiner Engineering at Phoenix Arizona. Developed a software package PLSUR7 for rigorous least squares adjustment of planimetric networks. Installed the package on a Micro-VAX computer system.

1984 - 1985 Greiner Engineering of California, Inc., Oakland California. Developed a software package PLSUR6 for rigorous least squares adjustment of planimetric networks. Installed the package on a PRIME computer system.

1984 Pacific Gas and Electric Company (PG and E) San Francisco, California. Completed a technical study "The aerial and Terrestrial Photogrammetry as an Alternative to the Traditional Surveying Methods". Contract No. 2-16-0023-84.

1983 - 1984 Rattray and Associates Inc. Surveying and Photogrammetry, Santa Anna California.

(a) Developed a software package for Aerial Triangulation Bundle Block Adjustment.

(b) Developed a software package for Close-Range Photogrammetry Bundle Adjustment with self calibration. Installed the developed software (a) and (b), on a Data General NOVA computer connected with a BC-1 Analytical Plotter.

(c) Installed fiducial marks on two 35 mm cameras to be used for close-range photogrammetry.

1983: Joe Bettit and Associates, Monterey California. Installed fiducial marks and calibrated of two TRS Bronica cameras to be used for close-range photogrammetry.

1982 NCS International, Richardson Texas. Developed a computer program for rigorous least squares adjustment of plane surveying control networks.

1975 - 1980 Worked in various consulting projects directed by professor S.A. Veress in Seattle Washington. Such projects include X-ray Photogrammetry and close-range Photogrammetry for biomedical applications and photogrammetric construction surveys. Participated in the design and execution of the consulting project: "Photogrammetric Monitoring of Moro 1200 KV test line". This project was sponsored by the Bonneville Power Administration and directed by professor S.A. Veress.

1974 - 1975 Licensed contractor for public works in Greece, directed and executed a building construction project.

1973 - 1974 Road construction engineer and surveying engineer of the city of Athens Greece. Supervised several road construction projects and surveying projects.

1972 - 1973 Licensed Land Surveyor self employed executed the following projects in Greece:

1. Control survey and topographic mapping of the city of Naxos for land development plan of the city extension.

2. Planimetric and profile data acquisition of the city of Apiranthos Greece for water and sewer system design.

3. Application on the ground (staking) of the land development plan of the extension of the City of Levadea Greece, street and block layout.

1971 - 1972 Military Service. Supervised several defense structures as an assistant officer.

1970 Summer Summer employment in highway layout for final study. Participated in the staking process as well as in the final study of a 10 KM road between Avchen Dirfyos and Stropones in Evoia Greece.

1969 Summer Summer employment by the Topographic Division of the Public Electric Company of Greece (DEH).

SOFTWARE DEVELOPMENTS

Developed and owns the following software packages:

1. **PLSUR5** Rigorous least-squares adjustment computer program for plane surveying networks using a microcomputer.

2. **PLSUR6, PLSUR7** same as PLSUR5 but for main frame computers.

3. **LEVNET** Least squares adjustment of leveling networks including network design using a personal computer.

4. **NAXIAPC** an integrated computer program for Analytical Aerial Triangulation with Bundle Block Adjustment which contains the following modules:

(a) Data input, editing, image coordinate transformation and refinement

(b) Relative Orientation on a strip by strip basis using the three photo method on all points involved.

(c) Absolute orientation, Resection, and polynomial adjustment.

(d) Bundle block adjustment, based on an originally developed sparse matrix operation algorithm.

5. **NAXOSPC** an Integrated computer program for Analytical Close-Range Photogrammetry with Bundle Adjustment and Self Calibration which contains the following modules:

(a) Data input, editing, image coordinate transformation and refinement

(b) Resection, Intersection.

(c) Bundle adjustment with self calibration including photo-variant parameters and Block-invariant parameters.

6. Many small computer programs for class demonstration in the following areas: Computer programming, Surveying computations, Land Information Systems (LIS), Optimum algorithms in surveying and photogrammetry, Digital terrain modeling, Digital Image Processing, Data collector interface.

7. Developed on a VAX-785 computer the data base of a standardized system for data collection, storage and retrieval to be used for computerized multipurpose land records information system (LIS).

8. Developed many educational computer programs which accompany the book "Topographic Mapping" and which materialize algorithms analyzed in the book covering most subjects in the area of geospatial information science and technology.

REVIEWS

He has been reviewer in the following Journals:

1. Photogrammetric Engineering and Remote Sensing, published by the American Society for Photogrammetry and Remote Sensing.
2. Surveying and Mapping, published by the American Congress on Surveying and Mapping
3. Journal of Applied Remote Sensing
4. Informatica
5. Mediterranean Archaeology & Archaeometry an International Journal
6. African Journal of Agricultural Research

EVALUATOR ON RESEARCH PROJECT PROPOSALS

Evaluator on the following projects involving Remote Sensing and GIS:

1. General Secretariat on Research and Technology, Greece: EIIET-2, Pythagoras
2. E.U. DG-XII Training and Mobility Marie Curie grants - Earth Sciences
3. INTAS
4. NTUA Research Committee

SOCIETIES MEMBER

1. American Society for Photogrammetry and Remote Sensing ASPRS (since 1976)
2. American Congress on Surveying and Mapping (1983)
3. American Society of Civil Engineers (1985)
4. Technical Chamber of Greece – TEE # 16140, professional Rural and Surveying Engineer (since 1971)

WORKSHOPS SEMINARS AND MEETINGS IN USA

1980 - 1989 once a year, presented the following 2-day 8-hours/day workshops in the State of California.

1. Elementary Photogrammetry
2. Analytical Photogrammetry
3. Close-Range Photogrammetry.
4. Adjustment by the Least Squares.
5. Digital Mapping and GIS.
6. Remote Sensing.

He also participated in the annual workshop for Land Surveyor's Examination in the State of California with 2-hour lecture on each topic:

1. Photogrammetry
2. Astronomy for Azimuth

Has made numerous presentations in meetings of professional societies and organizations, only few of those meetings are listed below:

1. Annual and semi-annual meetings organized by the American Society of Photogrammetry and Remote Sensing and the American Congress on Surveying and Mapping.
2. Annual San Joaquin Valley Surveyor's Conference, organized by the Surveying Engineering Faculty at the California State University, Fresno. He is also member of the organizing Committee.
3. Various meetings organized by the local Chapters of the ASPRS and ACSM in California and the California Land Surveyor's Association.
4. Surveying Teacher's Conference.
5. ISPRS meetings
6. F.I.G. meetings.
7. S.P.I.E. Meetings.

ORGANIZER OF CONFENCES SUMMER SCHOOLS AND SEMINARS

1. **1998**, Coordinator of the program SOCRATES COMENIUS action 3 “ Geo-Information Systems and Electronic Communication Networks as Instruments for Environmental Education ” διοργάνωσε την ημερίδα: Program progress and presentation of achieved results to the junior high school teachers: Monday March 30 1998, time: 9:00 – 13:00, in the conference room of the Lesbos Chamber of Commerce. Attendants were from the local community teachers and from the University.
<http://www.nibis.de/~trianet/news/lesbos.htm>
2. **1999**, TRIANET - GIS and Electronic Communication Networks as Instruments for Environmental Education, Island of Naxos (Kyklades), Greece, May 23rd to 30th, 1999.
<http://www.nibis.de/~trianet/news/course.htm> There were 30 participating teachers from all EU countries.
3. **2000**, TRIANET - GIS and Electronic Communication Networks as Instruments for Environmental Education Island of Naxos (Kyklades), Greece, June 11th to 18th, 2000.
<http://www.nibis.de/~trianet/news/course2.htm> There were 30 participating teachers from all EU countries.
4. **2001**. In service training course untitled Geo-information Systems And Electronic Communication Networks As Instruments For Environmental Education [course nb.: GR-001-2001-02] took place in Naxos from 03.11.2001 to 10.11.2001. There were 30 participating teachers from all EU countries.
5. **2006**. Geo-Information Systems and Electronic Communication Networks as Instruments for Environmental Education. Island of Naxos (Kyklades), Greece, October 15th to 21st, 2006, The International Course is part of the COMENIUS-Programme of the European Union. There were 30 participating teachers from all EU countries.
6. **1999**. Conference organization of the Extended University Program (EUP) on Environmental Cartography (EC).
Conference objectives: (5/2/1999)
 1. Development and evolution of the program of studies.
 2. Scientific activities in the area of EUP-EC
 3. Optimization of the continuing education program.
 4. Connection of the program with the industry
 5. Round table discussion – conclusions.
7. **1999-2006**. Summer school of EUP-EC

VOLUNTEER INITIATIONS TAKEN AT THE UNIVERSITY OF THE AEGEAN

Since the year 1989 where he and his family moved from California USA to Mytilene, he took with the help and contribution of his wife Andronique Karasmanoglou, the initiative among others on the following volunteer actions:

1. Summer co-op programs for students and development of lists with potential employers.
2. Connection of the University with the industry through the developed list of the co-op programs.
3. Organization of meetings with student presentations of co-op results.
4. Introduction to co-op programs abroad through the IAESTE and development of potential employer list.
5. Organization of athletic activities of students. Supported the organization of athletic event of all Greek Universities in Mytilene in 1993.
6. Organization of cultural activities of students. Supported the participation of the University of the Aegean in three major cultural events: 1992 NTUA Athens, 1994 U of Patras, 1996 AUTH Thessaloniki, where the University of the Aegean won first prizes on the presentation of cultural, art, and scientific activities.

PUBLICATIONS

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1. J. N. Hatzopoulos "Design and Calibration of a Plotting Instrument for Close-Range Photogrammetry", thesis University of Washington, 1976.

2. J. N. Hatzopoulos "The Combination of Aerial and Terrestrial Photogrammetry in Structural Monitoring". Dissertation, University of Washington, 1979.
3. J. N. Hatzopoulos «Simple Algorithm for Rigorous Least-Squares Solution to the Plane Surveying Problems», Proceedings of the ACSM Fall convention Niagara Falls New York, 1980.
4. J. N. Hatzopoulos "Mapping Exotic Animals by Close-Range Photogrammetry", Proceedings of the ASP Annual convention Denver, Colorado, 1982.
5. J. N. Hatzopoulos "Close-Range Photogrammetry in Predicting Animal Weight", Proceedings of the Biostereometrics 82, 15th International Congress on High Speed Photography and Photonics, San Diego, CA 1982.
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20. J.N.Hatzopoulos 1993, "GIS Applications at the Department of Environmental Studies at the University of the Aegean", Proceedings of the 8th European ARC/INFO User Conference, Astir Palace, Vouliagmeni, Oct. 11-13.
21. J. N. Hatzopoulos 1993 «GIS for decision making on Environmental problems» Proceedings of the conference: Information Sciences on Government Agencies Administration organized by the Greek Institute of Continuing Education in Patra Greece.
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29. Hatzopoulos J. N., 2002, “Fundamental philosophic principles of the education in Ancient Greece and their impact to the quality of modern man’ s life”, Proceedings of the 2nd International Conference Ancient Greece and Modern World, Olympia Greece.
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33. Hatzopoulos J. N., 2004, “Geospatial Information & Technology and the Engineer - Photogrammetry” Eupalinos TCG – NE - Aegean No 21, pp. 30 – 37.
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