

# CURRICULUM VITAE

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## 1. PERSONAL INFORMATION

**Name:** Andritsanos  
**Surname:** Vassilios  
**Date of birth:** May 30<sup>th</sup>, 1973  
**Place of birth:** Athens  
**Home address:** 28, Dimokratias str., Voula Attikis  
**Postal Code:** 166 73  
**Phone (Home / Work / Mobile):** +302108995381 / +302105385819 / +306974484393  
**e-mail:** [andritsanos@gmail.com](mailto:andritsanos@gmail.com), [vdandrit@teiath.gr](mailto:vdandrit@teiath.gr)  
**Marital status:** Married, 2 children  
**Professional status:** Assistant Professor – Department of Surveying  
TEI Athens

## 2. STUDIES

**11/6/91** Graduation from Lycee Leonin (Graduation Degree “Very Good”).  
**3/95-6/96:** Diploma Thesis (Aristotle University of Thessaloniki (AUTH) - Department of Geodesy and Surveying) entitled “Local geoid determination with a combination of gravity, topography, density and GPS data using FFT and GIS”. Supervisors: Prof. K. Katsambalos and Prof. I.N. Tziavos. (Diploma Thesis Degree “Excellent”)  
**22/7/96** Graduation from the AUTH (Graduation Degree: “Excellent”).  
**29/5/2000** PhD Thesis defense: “Optimum combination of terrestrial and satellite data using spectral domain methods for geodetic and oceanographic applications”. Supervisor Prof. I. N. Tziavos (PhD Thesis Degree: “Excellent”)

## 3. LANGUAGES

**French.** Very good level  
**English.** Very good level

## 4. AWARDS

- 1991-92** First in the student rank, scholarship from the National Scholarships Foundation
- 1993-94** First in the student rank, scholarship from the National Scholarships Foundation
- 1994-95** First in the student rank, scholarship from the National Scholarships Foundation
- 1995-96** Award from National Scholarships Foundation for the first graduate student of the Department
- 15/2/97** Award from the Technical Chamber of Greece for his progress during the University Year 1994-95
- 1/11/97** Scholarship from National Scholarships Foundation for his Ph.D. Thesis elaboration
- 30/12/97** Greek Academy of Athens Award for his progress in geodetic courses.
- 29/1/98** Award from the Technical Chamber of Greece for his progress during the University Year 1995-96
- 19/5/1999** International Association of Geodesy (IAG) Award for the participation in 1999 International Union of Geodesy and Geophysics (IUGG) congress

## 5. TRAINING – SEMINAR PARTICIPATION

- 28/2 - 1/3/97** Participant in the *“Introductory Course in the Bernese Software”* held in the Astronomical Institute of Bern in Switzerland
- 2 - 8/3/97** Participant in the *“2<sup>nd</sup> International School GPS for Geodesy”* in the NGC (Netherlands Geodetic Committee), Delft, Holland
- 25 - 30/5/98** Participant in the *“1<sup>st</sup> International Summer School in Data Analysis and Statistical Foundations in Geomatics”* under the I.A.G. auspices held at Chania - Crete

## 6. MEMBER OF ASSOCIATIONS

- 1996-today** Member of the Technical Chamber of Greece  
**1996-today** Member of the National Association of Surveyors  
**1999-today** Associate Member of the International Association of Geodesy  
**2002-today** Member of the American Geophysical Union – AGU  
**2002-today** Member of the European Geosciences Union – EGU

## 7. PROFESSIONAL EXPERIENCE

### 7.1. RESEARCH PROJECTS

Participant in bilateral and research projects (1997 – 2007). Work Contracts with the research committee of Aristotle University of Thessaloniki. In detail:

#### 7.1.1. WORK CONTRACTS WITH AUTH RESEARCH COMMITTEE

- 2000** Contract number: 1961: **Geoid studies and comparisons with geodetic, geophysical and geodynamical data.** Salary: **3.000 €**
- 2001** Contract number: 10020: **Local Geoid research in area with geophysical and geodynamical irregularities.** Salary: **3.000 €**
- 2003 – 2004** Contract number 10056: **Gravity field estimation with the combination of terrestrial and satellite data.** Salary: **4.025 €**
- 2003 – 2005** Research Associate in the project “**Optimal Combination of Terrestrial and Altimetric Data with Data from the New Satellite Missions of CHAMP and GOCE for the Accurate Determination of the Gravity Field**”. Research Leader: Prof. I. N. Tziavos. Duration: 10/2003 – 10/2005. **Budget: 60.000 €** Contract number 10147: **Optimum combination of terrestrial and altimetric data of the new satellite missions CHAMP and GOCE: Accurate gravity field estimation.** Salary: **14.200 €**
- 2001 – 2004** Research Associate in the project **GAVDOS** for the establishment of a calibration site in the island of Gavdos (European Union Energy, Environment and Sustainable Development Program). Project Leader: Prof. St. Mertikas. Duration: 04/2002 – 12/2004. Project title “**GAVDOS: Establishment of a European radar altimeter calibration and sea-level monitoring site for JASON, ENVISAT and Euro-GLOSS**” Project budget: **2.400.000 €** Research on optimum combination of geodetic data. Contract number 20642. Salary: **15.663,70 €**

- 2005 – 2006** Research Associate in the project: “**Local and Regional Gravity field modeling using a combination of terrestrial and satellite data.** Project Leader: Prof. I. N. Tziavos. Duration: 01/1/2005 – 31/12/2006. **Project budget: 90.000 €** Contract number 80838. Salary: **15.000 €**
- 2006 – 2007** Research associate in the project «**Development of an Information System for Natural Risk Management in the Mediterranean - SyNaRMa**» INTERREG III, Program ARHIMED. Project Leader: Prof. P. Savvaidis. Duration: 07/2006 – 12/2007. **Budget: 1.752.300 €** Contract number 80784: **Development of an information system from natural disaster management in the Mediterranean - SYNARMA.** Salary: **22.500 €**

### 7.1.2. RESEARCH PROJECTS ABROAD

- 3/99 – 10/99** **Research associate** at the Department of Geomatics Engineering of the University of Calgary – CANADA in the project **ENV#13: The synergistic use of multi-sensor remote sensing for monitoring of the Earth’s surface and atmospheric parameters (Budget: 994.000 €).** Network of Excellence GEOIDE (GEOIDE - NCE). **Project Leader: Prof M.G. Sideris.** Research on geoid estimation issues and on the approximation of the sea surface topography combining heterogeneous data. Altimetric data analysis with emphasis to their spectral characteristics. Error analysis of the repeated satellite tracks. Duration **April 1<sup>st</sup>, 1999 to October 1<sup>st</sup>, 1999** with salary **1500 CAD (~1000€) per month.**

### 7.1.3. BILATERAL AND NATIONAL COOPERATIONS

- 1997 - 1999** Research project on gravity field modeling in the frame of a bilateral agreement between Greece and Hungary (Aristotle University of Thessaloniki and Technical University of Budapest. Publications (Δ6), (Δ9) and (Δ11).
- 1997 - 2000** Research project between the Department of Geodesy and Surveying of the Aristotle University of Thessaloniki and the Hellenic Geographic Service of the Army on a precise height estimation using GNSS and gravimetric geoid undulations. Test area: Thessaloniki basin. Publication (Δ5).
- 1999 – 2002** Research project in the frame of a bilateral agreement between Greece and China. Research on new methods used in geoid modeling.

## 7.2. TEACHING EXPERIENCE

- 15/5-17/5/97** Invited Lecturer at the seminar organized by the Union of Surveying Engineers of Northern Greece in cooperation with the School of Rural and Surveying Engineering of the Aristotle University of Thessaloniki. Lecture topic: GPS Applications – Reference Systems – Coordinate transformations – Geopotential models.
- 24-29/11/97** Invited Lecturer at the seminar organized by the Technical Chamber of Greece. Lecture topic: Recent Geodetic applications of GPS.
- 10/08-9/10** Main Instructor to the course «**Geodesy**» of the 4<sup>th</sup> semester of the Department of Surveying (Technological and Educational Institute of Athens).
- 2/09-9/10** Main Instructor to the courses “**Construction Surveying**” and “**Network adjustments**” of the 3<sup>rd</sup> semester of the Department of Surveying (Technological and Educational Institute of Athens).
- 9/10-today** Main Instructor to the courses “**Construction Surveying**”, “**Network adjustments**” of the 3<sup>rd</sup> semester and “**Geodesy**”, “**Surveying Works**” of the 4<sup>th</sup> semester of the Department of Surveying (Technological and Educational Institute of Athens).
- May 2010** Visitor-Professor at the Faculty of Civil Engineering and Geodesy, University of Ljubljana, Slovenia under LLP Erasmus. Lecture topics: “**Height Systems – New evolutions and prospective**” and “**Geoid studies in Greece – History, results and open cases**”

### 7.2.1. TEACHING TUTORIALS

- Δ1. Andritsanos, V.D., C. Pikridas and I.N. Tziavos (1997): “Recent geodetic applications of GPS”, lecture notes at the seminar organized by the Technical Chamber of Greece, Thessaloniki, November, 24-29.
- Δ2. Andritsanos, V.D., G. Kappos and C. Pikridas (1997): “GPS Applications – Reference Systems – Coordinate transformations – Geopotential models”, lecture notes at the seminar organized by the Union of Surveying Engineers of Northern Greece in cooperation with the School of Rural and Surveying Engineering of the Aristotle University of Thessaloniki, Thessaloniki, May, 15-17.

## 8. SCIENTIFIC ACTIVITIES

### 8.1. REFERREE IN GEODETIC JOURNALS

*Journal of Geodesy*, official journal of the International Association of Geodesy – IAG

*Physics and Chemistry of the Earth*, official journal of the European Geosciences Union – EGU

### 8.2. INTERNATIONAL CONGRESS ORGANIZATION

**26/8-30/8/02** Member of the organizing committee of the 3<sup>rd</sup> congress of the International Gravity and Geoid Committee held at the Aristotle University of.

**30/8 – 5/9/02** Member of the organizing committee of the International Geoid School held at the Aristotle University of Thessaloniki under the auspices of International Geoid Service (IGeS)

### 8.3. PARTICIPATION IN INTERNATIONAL WORKING GROUPS

**1999 – 2003** Member of the **IAG Special Study Group 3.167**: Regional Land and Marine Geoid modeling. Chairman: I. N. Tziavos.

<http://olimpia.topo.auth.gr/ssg3167>

**1999 – 2003** Member of **IAG Special Study Group 3.186**: Altimetry data processing for gravity, geoid and sea surface topography determination. Chairman: Cheinway Hwang.

<http://space.cv.nctu.edu.tw/IAG/main.html>

**1999 – 2003** Member of **IAG Special Study Group 4.191**: Theory of fundamental height systems. Chairman: Christopher Jekeli.

<http://www-ceg.eng.ohio-state.edu/~cjekeli/ssg4-191.htm>



## 8.4. SCIENTIFIC PUBLICATIONS

### 8.4.1. DIPLOMA THESIS AND DISSERTATION

- Δ1. Andritsanos, V. D. and K. E. Kechaidou (1996): “Local geoid determination with a combination of gravity, topography, density and GPS data using FFT and GIS”, Diploma thesis. Department of Geodesy and Surveying, Aristotle University of Thessaloniki (in greek).
- Δ2. Andritsanos V. D. (2000): “Optimum combination of terrestrial and satellite data using spectral methods for applications in geodesy and oceanography”, PhD Dissertation. Department of Geodesy and Surveying. Aristotle University of Thessaloniki (in greek). \* **(cited by 6)**

### 8.4.2. FULL REVIEWED PUBLICATIONS

- Δ3. Tziavos, R. Forsberg, M.G. Sideris and V.D. Andritsanos (1997): “A comparison of satellite altimetry methods for the recovery of gravity field quantities”. Proceedings of IAG Scientific Assembly “Geodesy on the Move: Gravity, Geoid, Geodynamics and Antarctica”, eds. R. Forsberg, M. Feissel and R. Dietrich, pp. 150-155, Rio de Janeiro, Brazil, September 3-9. \***(cited by 4)**
- Δ4. Andritsanos V. D., K .E. Katsambalos, K. E. Kechaidou and I. N. Tziavos (1997) : “Optimization of a local geoid using gravity, height, density and GPS data through FFT and GIS”, *Technica Chronica*, Scientific publication of the Technical Chamber of Greece, I, vol. 1-2, pp. 43 – 61 (in greek). \***(cited by 3)**
- Δ5. Andritsanos, V. D., V. Kagiadakis, G. Kostakis, E. Milona-Kotrogianni, C. Pikridas, D. Rossikopoulos, I.N. Tziavos and A. Fotiou (1998): “Gravity and GPS data combination for orthometric height determination. Application in Thessaloniki area”, *Technica Chronica*, Scientific publication of the Technical Chamber of Greece, I, vol. 3, pp. 1 – 14 (in greek). \***(cited by 2)**
- Δ6. Tziavos I.N., J. Ádám, Gy. Tóth, V.D. Andritsanos and Sz. Rózsa (1998): “Recent geoid computations in Hungary and the surrounding area”, presented at the 2<sup>nd</sup> Continental Workshop on the Geoid in Europe, Budapest, 10 - 14 March. Finnish Geodetic Institute Report 98:4, pp. 257-262.
- Δ7. Tziavos I. N. and V. D. Andritsanos (1998): “Improvements in the computation of deflections of the vertical by FFT”, presented at the XXII EGS General Assembly, Session G12: “Developments in spectral stochastic techniques for gravity field modeling”, Vienna, April 21-25, 1997. *Physics and Chemistry of the Earth* 23(1), pp.71-75.
- Δ8. Tziavos I.N., V.D. Andritsanos (1998): “Recent advances in terrain correction computations”, presented at the 2<sup>nd</sup> Continental Workshop on the Geoid in Europe, Budapest, 10 - 14 March. Finnish Geodetic Institute Report 98:4, pp. 169-175. \* **( cited by 5 )**
- Δ9. Toth J., J. Adam, S. Rozsa, I.N. Tziavos and V.D. Andritsanos (1998): “Gravimetric geoid computations in Hungary and the surrounding area”, poster presented in the 2<sup>nd</sup> Joint Meeting of the International Gravity Commission (IGC) and the International Geoid Commission (IGeS), Trieste, September 7-12. *Bollettino di Geofisica Teorica ed Applicata*, 40(3-4), 403 – 409, 1999.

- Δ10. Tziavos I.N., V.D. Andritsanos (1999): “Recent geoid computations in the Hellenic area”, presented at the XXII General Assembly of the European Geophysical Society, Nice, 20 - 24 April, 1998. *Physics and Chemistry of the Earth* 24(1), Part A: Solid Earth and Geodesy, pp. 91-96. **\*(cited by 10)**
- Δ11. Toth, Gy., S. Rosza, V.D. Andritsanos, J. Adam and I.N. Tziavos (1999): “Towards a cm-geoid for Hungary. Recent efforts and results”, presented at the XXIII General Assembly of the European Geophysical Society, The Hague, April 19-23, 1999. *Physics and Chemistry of the Earth*. Vol. 25(1), Part A: Solid Earth and Geodesy, pp. 91-96, 2000. **\*(cited by 5)**
- Δ12. Andritsanos V.D. and I.N. Tziavos (1999): “Estimation of gravity field parameters by a multiple input / output system”, presented at the XXIII General Assembly of the European Geophysical Society, The Hague, April 19-23, 1999. *Physics and Chemistry of the Earth*. Vol. 25(1), Part A: Solid Earth and Geodesy, pp. 39-46, 2000. **\*(cited by 7)**
- Δ13. Andritsanos V.D., A.Fotiou, E. Paschalaki, C. Pikridas, D. Rossikopoulos and I.N. Tziavos (2000): “Local geoid computation and evaluation” presented at the XXIII General Assembly of the European Geophysical Society, The Hague, April 19-23, 1999. *Physics and Chemistry of the Earth*. Vol. 25(1), Part A: Solid Earth and Geodesy, pp. 63-69. **\*(cited by 3)**
- Δ14. Andritsanos V.D., D. Arabelos, S.D. Spatalas and I.N. Tziavos (2000): “Mean sea level studies in the Aegean sea”, presented at the XXIII General Assembly of the European Geophysical Society, The Hague, April 19-23, 1999. *Physics and Chemistry of the Earth*. Vol. 25(1), Part A: Solid Earth and Geodesy, pp. 53-56. **\*(cited by 4)**
- Δ15. Andritsanos V.D., M.G. Sideris and I.N. Tziavos (1999): “Quasi-stationary Sea Surface Topography Estimation by the Multiple Input / Multiple Output System Theory”. *Journal of Geodesy*, 75, 216 – 226, 2001. **\*(cited by 10)**
- Δ16. Andritsanos V.D., M.G. Sideris and I.N. Tziavos (1999): “A survey of gravity field modeling applications of the Input-Output System Theory (IOST)”. *International Geoid Service Bulletin*, N. 10, 1 – 17, 2000. **\*(cited by 4)**
- Δ17. Andritsanos, V.D., G.S. Vergos, I.N. Tziavos, E.C. Pavlis and S.P. Mertikas (2000): “A high resolution geoid for the establishment of GAVDOS multi-satellite calibration site”. *International Association of Geodesy Symposia*, M.G. Sideris (eds.), “Gravity, Geoid and Geodynamics 2000”, pp. 347 – 353, Springer-Verlag, 2001. **\*(cited by 3)**
- Δ18. I.N. Tziavos, V.D. Andritsanos, R. Forsberg and A. Olesen, 2004: Numerical investigation of downward continuation methods for airborne gravity data. Presented at the Gravity Geoid and Space Missions 2004 Conference, Porto, Portugal, Aug. 30 – Sept. 3, 2004. *International Association of Geodesy Symposia*, vol. 129 Jekeli, Christopher; Bastos, Luisa; Fernandes, Joana (Eds.) “Gravity Geoid and Space Missions”, pp. 119 – 124, Springer – Verlag, 2005. **\*(cited by 2)**
- Δ19. Vergos GS, Tziavos IN, Andritsanos VD (2005) On the Determination of Marine Geoid Models by Least-Squares Collocation and Spectral Methods Using Heterogeneous Data. *International Association of Geodesy Symposia*, Vol. 128 F. Sansó (ed.), A Window on the Future of Geodesy, Springer – Verlag Berlin Heidelberg, pp. 332-337. **\*(cited by 6)**
- Δ20. Vergos GS, Tziavos IN, Andritsanos VD (2005) Gravity Data Base Generation and Geoid Model Estimation Using Heterogeneous Data. *International Association of Geodesy Symposia*, Vol. 129, Jekeli C, Bastos L, Fernandes J (eds.), Gravity Geoid and Space Missions 2004, Springer – Verlag Berlin Heidelberg, pp. 155-160. **\*(cited by 3)**
- Δ21. I.N. Tziavos, G.S. Vergos, V.N. Grigoriadis and V.D. Andritsanos (2010) Adjustment of collocated GPS, geoid and orthometric height observations in

Greece. Geoid or orthometric height improvement? Accepted for publication in the proceedings of IAG 2009 Scientific Assembly "Geodesy for Planet Earth", Springer.

- Δ22. Andritsanos, V.D. and I.N. Tziavos (2010) A sensitivity analysis in spectral gravity field modeling using systems theory. Accepted for publication in the proceedings of IAG 2009 Scientific Assembly "Geodesy for Planet Earth", Springer.

### 8.4.3. PUBLICATIONS AND PRESENTATIONS ACCEPTED AFTER ABSTRACT REVIEW

- Δ23. Andritsanos V., H. Hryssomallidis, G. Kappos, K. Kechaidou, C. Pikridas and D. Tsoulis (1995): "*Orthometric Height Determination from a Combination of GPS and Gravity Data*", submitted to ION GPS-95 Student Paper Competition.
- Δ24. Andritsanos V. D., C. Pikridas, D. Rossikopoulos, I. N. Tziavos and A. Fotiou (1997): "*GPS height determination for cartographical purposes*" (in greek), presented at the 4<sup>th</sup> National Cartographic Congress, Kastoria, Greece, October 16-17. (Published in the Proceedings pp. 47 – 58).
- Δ25. Andritsanos, V. D., C. Pikridas, D. Rossikopoulos, I. N. Tziavos and A. Fotiou (1997): "*Depth representation in closed sea areas, lakes and rivers using an echo sounder and the GPS*" (in greek), presented at the 4<sup>th</sup> National Cartographic Congress, Kastoria, Greece, October 16-17. (Published in the Proceedings pp. 69 – 80).
- Δ26. Andritsanos V.D., M.G. Sideris and I.N. Tziavos (1999): "*Sea Surface Topography Estimation by a Generalised Multiple Input-Output Method*". Poster presented at the XXII IUGG General Assembly, Birmingham, July 18-30, 1999. **\*(cited by 1)**
- Δ27. Andritsanos, V.D. and I.N. Tziavos (2000): "*Modeling the sea surface topography in the Eastern Mediterranean Sea: Comparisons and results*". Presented at the XXIV EGS General Assembly, Nice, France, 25 – 29 March 2000. **\*(cited by 2)**
- Δ28. Andritsanos, V.D., G.S. Vergos, I.N. Tziavos and E.C. Pavlis (2000): "*Alternative geoid solutions in the southern Aegean Sea*". Presented at the XXIV EGS General Assembly, Nice, France, 25 – 29 March 2000. **\*(cited by 2)**
- Δ29. Andritsanos, V.D., and I.N. Tziavos (2000): "*Investigation of the input error propagation and the kernel modification in a multiple input – multiple output system*". Presented at the IAG Int. Symposium on Geoid, Gravity and Geodynamics 2000, Banff, Canada, July 31 – August 4, 2000. **\*(cited by 1)**
- Δ30. W.E. Fetherstone, S.A. Holmes, I.N. Tziavos and V.D. Andritsanos (2001): Generalisation of vertical deflection formulae for a reference spheroid: Application to Australia and Greece. Presented at the IAG Scientific Assembly, Budapest, Hungary, Sept. 2 -8, 2001. **\*(cited by 3)** (Published in the Proceedings CD)
- Δ31. Pikridas, C., V.D. Andritsanos, A. Fotiou, D. Rossikopoulos and I.N. Tziavos (2002): Height datum control by GPS and Local Geoid in the Wide Area of Thessaloniki. Poster presented at the 3<sup>rd</sup> Meeting of the International Gravity and Geoid Commission, August 26 – 30, Thessaloniki. **\*(cited by 1)**
- Δ32. Pikridas, C., V.D. Andritsanos, A. Fotiou, D. Rossikopoulos and I.N. Tziavos (2002): Computing orthometric heights and controlling their quality by GPS and local geoid in Northern Greece. Presented at the GNSS 2002

- Symposium, Copenhagen, Denmark. **\*(cited by 1)** (*Published in the Proceedings CD*).
- Δ33. I.N. Tziavos and V.D. Andritsanos (2003): “Error modeling and kernel modification in a multiple input – multiple output system”. *From Stars to Earth and Culture*. Dedicated Volume in honor of the memory of Prof. A. Tsioumis, pp. 208 – 213. Department of Geodesy and Surveying, Aristotle University of Thessaloniki.
- Δ34. G.S. Vergos, I.N. Tziavos and V.D. Andritsanos, 2004: Gravity Data Base Generation and Geoid Model Estimation Using Heterogeneous Data. Presented at the Gravity Geoid and Space Missions 2004 Conference, Porto, Portugal, Aug. 30 – Sept. 3, 2004.
- Δ35. V.D. Andritsanos, G. Fotopoulos, A. Fotiou, C. Pikridas, D. Rossikopoulos and I.N. Tziavos, 2004: New local geoid model for northern Greece. Proceedings of the 3<sup>rd</sup> International Central and Eastern Conference on Engineering Surveying, FIG Regional Central and Eastern European Conference, Bratislava, Slovakia, 11-13 November 2004. **\*(cited by 2)** (*Published in the Proceedings CD*)
- Δ36. Tziavos IN, Sideris MG, Vergos GS, Grigoriadis VN, Andritsanos VD (2006) An overview of spectral methods for the optimal processing of satellite altimetry and other data. Poster presented at the “15 Years of Progress in Satellite Altimetry” Symposium, March 13-18, Venice, Italy.
- Δ37. Tziavos IN, Tsoulis D, Andritsanos VD, Grigoriadis VN, Tzanou EA, Vergos GS (2006) Establishment of a GPS network in Northern Greece for geodetic and geodynamic applications. Poster presented at the 1<sup>st</sup> International Symposium of the International Gravity Field Service “Gravity Field of the Earth”, August 28 – September 1 2006, Istanbul.
- Δ38. Tziavos IN, Vergos GS, Grigoriadis VN, Tsoulis D, Andritsanos VD, Tzanou EA (2007) Analysis of Repeated GPS Measurements over a geodetic network and a common adjustment of heterogeneous height data. Poster presented at the XXIV General Assembly of the IUGG (IUGG2007), July 2-13, Perugia, Italy.

## 9. COMPUTER KNOWLEDGE

### **Operating systems:**

Windows (XP, Vista), Unix-based (Generic Unix, Solaris, IRIX-SGI Linux – Slackware, Debian, Fedora, OpenSUSE, Mandriva)

### **Presentation, Document preparation and data management software:**

Microsoft Office, Openoffice, LaTeX

### **Digital image processing software:**

ImageMagick, gimp, CORELDRAW, Photoshop

### **CAD software:**

Autocad, Microstation

### **GIS software:**

ArcGIS

### **Scientific software of data analysis:**

MATLAB, MAPLE

### **Programming Languages**

FORTRAN, BASIC

### **Specialized geodetic software:**

GRAVSOF (Danish Space Center)

Generic Mapping Tools (GMT)

GEODYN (Goddard – NASA)

Bernese 5.0 (Astronomical Institute – University of Bern)