

KONSTANTINOS G. NIKOLAKOPOULOS

Associate Professor University of Patras

SHORT C.V.

Personal Details

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Working Experience

6/1998-3/1999 & 10/2000 – 3/2003 : PLANO SA Remote Sensing and GIS Department.

3/2003 – 9/2005 : IGD Group SA, Department of Geoinformatics.

6/2006 – 2/1/2012: Institute of Geology and Mineral Exploration, Division of General Geology and Geological Mapping.

3/1/2012 - 2016: Assistant Professor, University of Patras, Department of Geology.

2016- today: Associate Professor University of Patras, Department of Geology

Academic Training

1997: Degree in Geology, Department of Geology, University of Athens. Thesis Title : “*Development of a Geodatabase for hydrological studies in the area of Andritsena*”.

2002: Ph.D. in Geology, Department of Geology, University of Athens. Thesis Title : “*Use of Remote Sensing Data and Methods and development of special digital image processing techniques for the geomorphologic and geographic study of Alfios River Basin*”.

2007: Post-Doc Research in the Remote Sensing Laboratory Department of Geology, University of Athens under the aegis of State Scholarship Foundation of Greece. Research thesis title "*Synergistic use of Hyperspectral Data and GIS in Geosciences with emphasis on a) Spectral Band Ratios, b) Digital filters, c) Vegetation Indexes*".

Other Skills:

2002 : Adult education tutor in Informatics Ministry of Education Code: 4982/01.

Teaching:

Cartography, GIS, Remote Sensing, Photogrammetry, Hydrology.

Research Interests:

GIS,
Remote Sensing,
Photogrammetry,
Hydrology,
Geological Mapping

Other activities:

Chairman of the Special Interest Group **Geological Applications** of the European Association of Remote Sensing laboratories: (<http://www.earsel.org/SIG/Geology/index.php>).

Co-Editor in Earsel Eproceedings (journal of the European Association of Remote Sensing laboratories)

Co-chairman in SPIE Earth Resources and Environmental Remote Sensing/GIS Applications conferences.

Associate Editor in the Taylor and Francis Journal indexed in CI “European Journal of remote Sensing” <https://www.tandfonline.com/toc/tejr20/current>

External reviewer in twenty International journals and one Greek journal.

Google Scholar profile: <https://scholar.google.gr/citations?hl=el&user=aenpbb8AAAAJ>

Scopus profile: <https://www.scopus.com/authid/detail.uri?authorId=6602629539>

Publications in peer reviewed journals and conference proceedings volumes:

1. **K. Γ. ΝΙΚΟΛΑΚΟΠΟΥΛΟΣ & Δ. Α ΒΑΪΟΠΟΥΛΟΣ**, 1995, "Δημιουργία ενός Γ.Σ.Π. και αξιοποίηση των δεδομένων για τον αυτόματο υπολογισμό του μέσου υψομέτρου και της μέσης κλίσης περιοχών". *ΠΡΚ 4^ο Πανελληνίου Γεωγραφικού Συνεδρίου*, σελ. 626-641.
2. **PARCHARIDIS ISSAAK, POSCOLIERI MAURIZIO, ΝΙΚΟΛΑΚΟΠΟΥΛΟΣ ΚΩΝΣΤΑΝΤΙΝΟΣ & SERELIS ΚΩΝΣΤΑΝΤΙΝΟΣ**, 1999, “Revised geomorphic and geologic outlines of Lesbos island by a comparative analysis of TM Landsat data and classical maps”. *IEEE IGARSS Proc. Vol. II Pages: 876-878, ISBN: 0-7803-5207-6*.
3. **DIMITRIOS ΒΑΙΟΠΟΥΛΟΣ, ΚΩΝΣΤΑΝΤΙΝΟΣ ΝΙΚΟΛΑΚΟΠΟΥΛΟΣ, ΓΕΩΡΓΙΟΣ ΑΙΜ. ΣΚΙΑΝΙΣ**, 2001, “A comparative study of resolution merge techniques and their efficiency in processing images of urban areas”. *IEEE/ISPRS Joint Workshop on Remote Sensing and Data Fusion over Urban Areas*, p. 270-274, ISBN: 0-7803-7059-7.
4. **PARCHARIDIS ISSAAK, ΝΙΚΟΛΑΚΟΠΟΥΛΟΣ ΚΩΝΣΤΑΝΤΙΝΟΣ, SERELIS ΚΩΝΣΤΑΝΤΙΝΟΣ & BASKOUTAS ΙΟΑΝΝΙΣ**, 2001, “Synergistic use of Optical and Radar data for active faults and corresponding displaced landforms detection in Kozani Basin (Greece)”. *Geocarto International, a multi-disciplinary journal of Remote Sensing and GIS, ISSN: 1010-6049, Vol 16 No 3, September 2001, p.17-23*.
5. **K. ΝΙΚΟΛΑΚΟΠΟΥΛΟΣ, D. ΒΑΙΟΠΟΥΛΟΣ & G. ΣΚΙΑΝΙΣ**, 2002, “A comparative study of different atmospheric correction algorithms over an area with complex geomorphology in Western Peloponnese, Greece”, *IEEE IGARSS Proc. Vol. IV Pages: 2492-2494, ISBN: 0-7803-7536-X*.

6. KARFAKIS IOANNIS & **ΝΙΚΟΛΑΚΟΠΟΥΛΟΣ ΚΩΝΣΤΑΝΤΙΝΟΣ**, 2002, "Use of Landsat TM Images for the Detection of Water Outflows in the Coastal Area of South Attiki Peninsula, Greece", *Proc. of SPIE*, Vol. 4881, p. 692-700.
7. **ΝΙΚΟΛΑΚΟΠΟΥΛΟΣ ΚΩΝΣΤΑΝΤΙΝΟΣ** & ΑΝΤΩΝΑΚΑΚΗΣ ΑΝΤΩΝΙΟΣ, 2002, "Δημιουργία Ψηφιακού Μοντέλου Αναγλύφου με τη Βοήθεια Δορυφορικών Δεδομένων ASTER και Στατιστικός Έλεγχος της Ακρίβειας του Μοντέλου", *Β' Πανελλήνιο Συνέδριο της Ελληνικής Εταιρείας Γεωγραφικών Συστημάτων Πληροφοριών*, Αθήνα 28/2-1/3-2002. Πρακτικά σε CD-ROM.
8. ΔΗΜΗΤΡΙΟΣ Α. ΒΑΙΟΠΟΥΛΟΣ, **ΚΩΝΣΤΑΝΤΙΝΟΣ ΝΙΚΟΛΑΚΟΠΟΥΛΟΣ**, ΓΕΩΡΓΙΟΣ ΑΙ. ΣΚΙΑΝΗΣ, 2002, "Δημιουργία Ψηφιακών Μοντέλων Αναγλύφου Με Ψηφιοποίηση Ισοϋψών από Τοπογραφικούς Χάρτες και Στατιστική Ποσοτικοποίηση του Σφάλματος που Υπεισέρχεται κατά την Κατασκευή τους", *6^ο Πανελλήνιο Γεωγραφικό Συνέδριο*, Τόμος II, σελ 63-70, Θεσσαλονίκη 3 – 6 Οκτωβρίου 2002.
9. ΔΗΜΗΤΡΙΟΣ Α. ΒΑΙΟΠΟΥΛΟΣ, **ΚΩΝΣΤΑΝΤΙΝΟΣ ΝΙΚΟΛΑΚΟΠΟΥΛΟΣ**, ΓΕΩΡΓΙΟΣ ΑΙ. ΣΚΙΑΝΗΣ, 2002, "Χαρτογράφηση Καμένων Περιοχών στη Ζάκυνθο με τη Βοήθεια Δεδομένων Τηλεπισκόπησης", *6^ο Πανελλήνιο Γεωγραφικό Συνέδριο*, Τόμος II, σελ 71-78, Θεσσαλονίκη 3 – 6 Οκτωβρίου 2002.
10. Κ. ΠΑΠΑΔΟΠΟΥΛΟΥ-ΒΡΥΝΙΩΤΗ, Δ. Α. ΒΑΪΟΠΟΥΛΟΣ, **Κ. Γ. ΝΙΚΟΛΑΚΟΠΟΥΛΟΣ**, 2002, "Πυρκαγιές και Περιβαλλοντικά Προβλήματα στην Χερσόνησο της Λιχάδας (Β. Εύβοια)", *5^ο Πανελλήνιο Συνέδριο Περιβάλλοντος*, σελ. 55-60.
11. Δ. ΒΑΙΟΠΟΥΛΟΣ, **Κ. ΝΙΚΟΛΑΚΟΠΟΥΛΟΣ**, G. SKIANIS, G. KOROMPILIS, & A. ANTONAKAKIS, 2002, "Erosion Risk and Desertification Risk at Pyrgos, Greece". *Management Information System 2002: Incorporating GIS and Remote Sensing*, WIT press, Editors: C. A. Brebbia & P. Pascolo, p. 235-243.
12. **ΚΩΝΣΤΑΝΤΙΝΟΣ ΝΙΚΟΛΑΚΟΠΟΥΛΟΣ**, DIMITRIOS VAIPOULOS & GEORGIOS SKIANIS, 2003, "Joint Use of Multitemporal and Multisensor Remote Sensing Data, PCA and GIS techniques for the detection of changes at the lower Alfios River Channel, Greece", *Proc. of SPIE*, Vol. 5239 p. 133-144.
13. **ΚΩΝΣΤΑΝΤΙΝΟΣ ΝΙΚΟΛΑΚΟΠΟΥΛΟΣ**, DIMITRIOS VAIPOULOS & GEORGIOS SKIANIS, 2003, "Use of Multitemporal Remote Sensing Thermal Data for the Creation of Temperature Profile of Alfios River Basin", *IEEE IGARSS Proc.* Vol. 4, p. 2389-2391, ISBN: 0-7803-7929-2.
14. **ΚΩΝΣΤΑΝΤΙΝΟΣ ΝΙΚΟΛΑΚΟΠΟΥΛΟΣ**, 2003, "Use of Vegetation Indexes with ASTER VNIR data for burnt areas detection in Western Peloponnese, Greece", *IEEE IGARSS Proc.* Vol. 5 p. 3287-3289, ISBN: 0-7803-7929-2.
15. **ΚΩΝΣΤΑΝΤΙΝΟΣ ΝΙΚΟΛΑΚΟΠΟΥΛΟΣ**, 2003, "Comparative study of fusing ETM data with five different techniques for the broader area of Pyrgos, Greece", *Proc. of SPIE*, Vol. 5238, p. 84-95.
16. **ΚΩΝΣΤΑΝΤΙΝΟΣ ΝΙΚΟΛΑΚΟΠΟΥΛΟΣ**, DIMITRIOS VAIPOULOS & GEORGIOS SKIANIS, 2003, "Use of Vegetation Indexes & PCA Method with Remote Sensing Data for the classification of burnt areas according to how many times they have been burnt", *Proc. of SPIE*, Vol. 5232, p. 196-207.
17. **ΚΩΝΣΤΑΝΤΙΝΟΣ ΝΙΚΟΛΑΚΟΠΟΥΛΟΣ**, DIMITRIOS VAIPOULOS & GEORGIOS SKIANIS, 2003, "Fusion and Atmospheric Correction Techniques on Multitemporal & Multisensor Satellite data for the Detection of burnt areas in Western Peloponnese, Greece", *Proc. of SPIE*, Vol. 5238, p. 153-163.
18. **ΚΩΝΣΤΑΝΤΙΝΟΣ ΝΙΚΟΛΑΚΟΠΟΥΛΟΣ**, DIMITRIOS VAIPOULOS & GEORGIOS SKIANIS, 2003, "Use of Multitemporal Remote Sensing Data for the detection of areas with lower temperature in Alfios River Basin Western Peloponnese, Greece.", *Proc. of SPIE*, Vol. 5232, 510-520.
19. **ΚΩΝΣΤΑΝΤΙΝΟΣ Γ. ΝΙΚΟΛΑΚΟΠΟΥΛΟΣ**, & ΚΟΣΜΑΣ ΠΑΥΛΟΠΟΥΛΟΣ, 2003, "Joint Use of Multitemporal Satellite Data & Hydrogeological Studies for the Detection and Surveillance of Under Water Springs in the Gulf of Argolis, Greece.", *GIS AND RS: ENVIRONMENTAL*

APPLICATIONS Proceedings of the International Symposium, organized by The European Commission COST 719 & The University of Thessaly, held at Volos, Greece, 7-9 November 2003, p239-248.

20. **NIKOLAKOPOULOS KONSTANTINOS & ANTONAKAKIS ANTONIOS** 2004, "Creation of DTM With ASTER Data and Statistical Verification of the Accuracy of the Model (Western Peloponnese, Greece)". *Geocarto International, a multi-disciplinary journal of Remote Sensing and GIS, ISSN: 1010-6049*, Vol 19 No 1, March 2004, p. 3-9.
21. **VAIOPOULOS A. DIMITRIOS, SKIANIS AIM. GEORGIOS & NIKOLAKOPOULOS G. KONSTANTINOS** 2004. "The Contribution Of Probability Theory In Assessing The Efficiency Of Two Frequently Used Vegetation Indices". *International Journal of Remote Sensing, ISSN: 0143-1161*, Vol. 25 No 20, p. 4219-4236.
22. **KONSTANTINOS G. NIKOLAKOPOULOS**, 2004, "Evaluation of the Accuracy of Vegetation Data For Burnt Areas Detection", *Proceedings of the 2nd International VEGETATION Users Conference, Antwerp, 24-26 March 2004* Editors: Frank Veroustraete, Etienne Bartholomé and Willem W. Verstraeten Keywords: SPOT4, SPOT5, VEGETATION, remote sensing, earth observation Luxembourg: Office for Official Publication of the European Communities. ISBN 92-894-9004-7.EUR 21552 EN. © European Communities, 2005, p. 377-382.
23. **GEORGE A. SKIANIS, KONSTANTINOS G. NIKOLAKOPOULOS & DIMITRIOS A. VAIPOPOULOS**, 2004, "Application of Two New Vegetation Indices on Spot Vegetation Images", *Proceedings of the 2nd International VEGETATION Users Conference, Antwerp, 24-26 March 2004* Editors: Frank Veroustraete, Etienne Bartholomé and Willem W. Verstraeten Keywords: SPOT4, SPOT5, VEGETATION, remote sensing, earth observation Luxembourg: Office for Official Publication of the European Communities. ISBN 92-894-9004-7.EUR 21552 EN. © European Communities, 2005, p91-96.
24. **KONSTANTINOS NIKOLAKOPOULOS**, 2004, "Pansharpe vs wavelet vs PCA fusion technique for use with landsat ETM panchromatic and multispectral data", *Proc. of SPIE*, Vol. 5573, p. 30-40.
25. **GEORGIOS SKIANIS, DIMITRIOS VAIPOPOULOS & KONSTANTINOS NIKOLAKOPOULOS**, 2004, "Design of a new sharpening filter", *Proc. of SPIE*, Vol. 5573, p. 104-114.
26. **KONSTANTINOS G. NIKOLAKOPOULOS, DIMITRIOS A. VAIPOPOULOS, GEORGIOS AIM. SKIANIS**, 2004, "Comparing a DTM created with ASTER data to GTOPO 30 and to one created from 1/50.000 topographic maps", *Proc. of SPIE*, Vol. 5574, p. 43-51.
27. **KONSTANTINOS G. NIKOLAKOPOULOS, & KOSMAS PAVLOPOULOS**, 2004, "Environmental monitoring of Lake Distos in central Evia, Greece using multitemporal and multisensor remote sensing data", *Proc. of SPIE*, Vol. 5568, p. 102-111.
28. **KONSTANTINOS G. NIKOLAKOPOULOS, DIMITRIOS A. VAIPOPOULOS, GEORGIOS AIM. SKIANIS**, 2004, "ASTER DTM vs GTOPO30 and 1/250.000 topographic maps. The case of Lefkas Island, Greece", *IEEE IGARSS Proc.* Vol. III p. 2237-2240, ISBN: 0-7803-8742-2.
29. **KONSTANTINOS G. NIKOLAKOPOULOS**, 2004, "Comparison of four different fusion techniques for IKONOS data", *IEEE IGARSS Proc.* Vol. IV p. 2534-2537, ISBN: 0-7803-8742-2.
30. **Γ. ΑΙΜ. ΣΚΙΑΝΗΣ, Δ. ΒΑΪΟΠΟΥΛΟΣ, Κ. Γ. ΝΙΚΟΛΑΚΟΠΟΥΛΟΣ**, 2004, "Αξιολόγηση του δείκτη βλάστησης τνί με τη συνδρομή της θεωρίας πιθανοτήτων", *10^ο Διεθνές Συνέδριο της Ελληνικής Γεωλογικής Εταιρείας*, Θεσσαλονίκη 15-17 Απριλίου 2004, Τόμος XXXVI/3 σελ. 1338-1346.
31. **Γ. ΑΙΜ. ΣΚΙΑΝΗΣ, Δ. ΒΑΪΟΠΟΥΛΟΣ, Κ. Γ. ΝΙΚΟΛΑΚΟΠΟΥΛΟΣ**, 2004, "Μελέτη της Συμπεριφοράς του Δείκτη Βλάστησης Savi με Βάση τη Θεωρία Πιθανοτήτων", *7^ο Πανελλήνιο Γεωγραφικό Συνέδριο της Ελληνικής Γεωγραφικής Εταιρείας*, Τόμος II, σελ. 291-298, Μυτιλήνη 2004.
32. **KONSTANTINOS G. NIKOLAKOPOULOS, DIMITRIOS A. VAIPOPOULOS, GEORGE AIM. SKIANIS, PANAGIOTIS SARANTINOS & ANTONIS TSITSIKAS**, 2005, "Combined use of Remote Sensing, GIS and GPS data for landslide mapping", *IEEE IGARSS Proc.* Vol. 7, p. 5196-5199, ISBN: 0-7803-9050-4.

33. **KONSTANTINOS G. NIKOLAKOPOULOS**, DIMITRIOS A. VAIOPOULOS, GEORGIOS AIM. SKIANIS, 2005, "SRTM DTM vs one created from 1/50.000 topographic maps. The case of Kos Island", *Proc. of SPIE*, Vol. 5980, p. 122-131.
34. **KONSTANTINOS G. NIKOLAKOPOULOS**, KOSMAS PAVLOPOULOS, CHRISTOS CHALKIAS & DORA MANOU, 2005, "Monitoring the urban expansion of Athens, using remote sensing and GIS techniques, in the last 35 years", *Proc. of SPIE*, Vol. 5983, p. 64-75.
35. **KONSTANTINOS G. NIKOLAKOPOULOS**, DIMITRIOS A. VAIOPOULOS, GEORGIOS AIM. SKIANIS, 2005, "Monitoring of the environmental changes at Lefkas Island using remote sensing data and GIS techniques", *Proc. of SPIE*, Vol. 5983, p. 299-308.
36. **KONSTANTINOS G. NIKOLAKOPOULOS**, 2005, "Eight different fusion techniques for use with very high resolution data" *Proc. of SPIE*, Vol. 5982, p. 50-61.
37. GEORGE AIM. SKIANIS, DIMITRIOS A. VAIOPOULOS, **KONSTANTINOS G. NIKOLAKOPOULOS**, 2005, "A study of the performance of a new sharpening filter" *Proc. of SPIE*, Vol. 5982, p. 323-334.
38. **KONSTANTINOS G. NIKOLAKOPOULOS**, 2005, "Comparison of six fusion techniques for SPOT5 data", *IEEE IGARSS Proc.* Vol. 4, p. 2811- 2814, ISBN: 0-7803-9050-4.
39. **KONSTANTINOS G. NIKOLAKOPOULOS** & GEORGE LATHOURAKIS, 2005, "Along the track vs across the track satellite stereo-pair for DTM creation", *IEEE IGARSS Proc.* Vol. 8, p. 5324- 5327, ISBN: 0-7803-9050-4.
40. **NIKOLAKOPOULOS G. KONSTANTINOS**, EMMANUEL K. KAMARATAKIS & NEKTARIOS CHRYSOULAKIS 2006. "SRTM vs ASTER Elevation Products. Comparison for two Regions in Crete, Greece". *International Journal of Remote Sensing*, ISSN: 0143-1161, Vol 27, No 21-22, 10 November 2006, p. 4819-4838.
41. **KONSTANTINOS G. NIKOLAKOPOULOS**, VASSILIA KARATHANASSI & DEMETRIUS ROKOS 2006, "Hyperspectral data and methods for coastal water mapping" *Proc. of SPIE*, Vol. 6359, p. 63590I1-12.
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44. **NIKOLAKOPOULOS KONSTANTINOS**, VAIOPOULOS A. DIMITRIOS, & SKIANIS AIM. GEORGIOS 2007, "Use of Multitemporal Remote Sensing Data for Mapping the Alfios River Network Changes from 1977 to 2000". *Geocarto International, a multi-disciplinary journal of Remote Sensing and GIS*, ISSN: 1010-6049. Vol 22, No 4, December 2007, p. 251-271. DOI: 10.1080/10106040701204727.
45. SKIANIS AIM. GEORGIOS VAIOPOULOS A. DIMITRIOS, & **NIKOLAKOPOULOS G. KONSTANTINOS** 2007. "A Probabilistic Approach on the Problem of the Efficiency of the TVI Vegetation Index", *International Journal of Sustainable Development and Planning*, WIT Press, ISSN: 1743-7601, Vol. 2 Issue 4 p. 1-20 DOI: 10.2495/SDP-V2-N4-1-20.
46. **KONSTANTINOS G. NIKOLAKOPOULOS**, VAIOPOULOS A. DIMITRIOS & SKIANIS A. GEORGE 2007, "A preliminary approach on the use of satellite Hyperspectral data for geological mapping", *Bulletin of the Geological Society of Greece* vol. XXXVII, 2007, Proceedings of the 11th International Congress, Athens, 24-26 May, 2007. Vol. XXXX, p. 1098-2007.
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52. ALEXANDRA ZERVAKOU, PANAGIOTIS I. TSOMBOS & **KONSTANTINOS G. NIKOLAKOPOULOS** 2007, "Urban Geology": Documentation of geo-thematic information for urban areas in Greece, the case of Nafplion Greece., *Proc. of SPIE*, Vol. 6749 p. 67491G1-12.
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