







Remote Sensing Expert

linkedin.com/pub/nikos-alexandris   
repositories  

+30 6972 013 027 

nik@nikosalexandris.net   
@NikAlexandris 

## NIKOS ALEXANDRIS

### Experiences

#### Consultancies

- Vulnerability evaluation of Greek fir forests to climate change, independent research project supported by DEMETER Mar 2015 – Sep 2015
- *Monitoring Mangroves Restoration from Space*, UNEP/GRID-Geneva Apr 2013 – Dec 2013
- Forest fuel type mapping, ArcFUEL, Epsilon International S.A. Nov 2012 – Feb 2013
- Adaptation of ArcGIS-based timber volume estimation to GRASS-GIS, Fondazione Edmund Mach January 2012

#### Academic contributions

- Guest scientist in *Site Classification of European Forests* practicum, Silviculture Institute, Albert-Ludwigs University, Freiburg i. Br., Germany July 2009
- Mapping disturbed areas in aged coppice on steep slopes in Rhine & Moselle Silviculture Institute, Albert-Ludwigs University, Freiburg i. Br., Germany March 2009

#### Various

- *Rapid Fire Area Mapping*, Workshop co-organized by ECAT - Tirana & SNV - Netherlands, Tirana, Albania 24 & 25 April 2008
- Remote Sensing/GIS expert, Infoterra GmbH, Friedrichshafen, Germany Mar 2005 – Sep 2006

### Education

#### Faculty of Forest & Environmental Sciences, University of Freiburg

- Doctorate, Dept. of Remote Sensing & Landscape Information Systems (FeLIS) Oct 2005 – Jun 2011  
Dissertation: *Burned Area Mapping via Non-centered Principal Components Analysis using Public Domain Data & Free Open Source Software.*
- Master's, Sustainable Forestry & Land Use Management – Attended only one year Oct 2004 – Oct 2005

#### Faculty of Forestry & Natural Environment, Aristotle University of Thessaloniki, Greece

- Diploma – Equivalent to Master's Sep 1999 – Jul 2004
- Training, Practical Forestry in University-owned forests  
Pertouli, Trikala, central Greece July 2003 & August 2002  
Taxiarchis, Chalcidice Peninsula, north Greece July 2001



- Interested in applied Remote Sensing projects
- Born on 28. 03. 1980, Trikala, Greece
- Speaks and writes fluently *Greek, German, English*
- Fullfilled military obligations in Greece, May 2011 to February 2012






MECARD

## Internships

- [UNEP/DEWA/GRID-Geneva](#), Geneva, Switzerland Oct 2007 – Feb 2008
- GeoInfo–Applied Research & Studies, Thessaloniki, Greece Mar 2004 – Jul 2004
- Forestry Service in Kalabaka, Prefecture of Trikala, Greece Aug 2003

## Skills

- *Operating Systems* – Funtoo/Gentoo, (K)Ubuntu-, SliTaz, Slax, Debian, MS-Windows Vista); MS-DOS
- *Tools* – vim, ZFS, knitr, **git**, RKWard, , Kile, KOMA-script, LyX
- *Scripting* – bash, R, Python —  [github.com/NikosAlexandris](https://github.com/NikosAlexandris)
- *Remote Sensing, GIS, GPS* – GDAL/OGR, GRASS-GIS, QuantumGIS, SQLite, various MODIS tools (HDFLook, Imager, Msphinx, GlobeGrid), ERDAS Imagine (8.x, 9.x), e-cognition (4.0x), ENVI (4.x), LCCS (Land Cover Classification System), gpsman, gpstrans, ArcEdit & ArcView (3.x), ArcGIS (8.x, 9.x), MapInfo (7.x), InterChange for ArcView Trimble Office Pathfinder
- *Image, Vector & Video Processing* – TheGimp, ImageMagick, exiftools, Inkscape, UFRaw, RawTherapee, KDEnlive

## Presentations & Talks

- Oral presentation in Greek *Επεξεργασία δορυφορικών εικόνων υψηλής ανάλυσης με το GRASS-GIS, παράδειγμα ανάλυσης δεδομένων του δορυφόρου QuickBird2*, (en: Processing QuickBird2 imagery using GRASS-GIS), [FOSSCOMM2014](#), Lamia, Greece May 3rd, 2014
- Invited talk about GRASS-GIS & Workshop (*Processing High Resolution Satellite Imagery with GRASS-GIS, An Example Using QuickBird2 Imagery*) in the VHDL laboratory, ECE, Kurukshetra University, India March 4th, 2014
- Talk about GRASS-GIS, TERI University, Delhi, India February 21st, 2014
- Oral presentation of dissertation (Alexandris 2011) in [HellasGI's 7th conference – abstract in greek \(PDF file\)](#) May 2012
- Talk about GRASS-GIS, 1st Hellenic GRASS & GFOSS User's Meeting June 2011
- Participation in the 1st GeoDataCamp organised by [geodata.gov.gr](#) volunteers & [EA/ΛAK](#) (the Greek FS/OSS) community members November 2010
  - Talk on burned area mapping using public domain data and GFOSS
  - One-on-One example based demonstration of GRASS-GIS
- Oral presentation at the [29th EARSeL Symposium](#), Chania, Crete, Greece: Estimating the Forest Fire Damage in Peloponnese (Greece, 2007) using MODIS products June 15h, 2009

## References

- Pascal Peduzzi, Dr, UNEP/GRID-Geneva  +41 22 917 82 37  [pascal.peduzzi@unepgrid.ch](mailto:pascal.peduzzi@unepgrid.ch)
- Alkis Astyakopoulos, MSc, Urban Planner  +30 210 650 31 50  [alastiak@iit.demokritos.gr](mailto:alastiak@iit.demokritos.gr)
- Steffen Kuntz, Professor of Remote Sensing & GIS  [Steffen.Kuntz@astrium.eads.net](mailto:Steffen.Kuntz@astrium.eads.net)
- Harko Koster, Lat. America Coordinator, WWF  +31 634 734 087  [Harko\\_koster@yahoo.com](mailto:Harko_koster@yahoo.com)

## Honors & Scholarships

- Significant contribution to the [ISPRS Student Consortium Newsletter](#) (ISPRS-SC 2008) International Society for Photogrammetry & Remote Sensing July 2008
- Scholarship awarded from the income of Sofia Chlorou Bequest of the National Technical University of Athens, Greece Oct 2005 – Oct 2009

## Advanced Training

- Einführung in die Statistik mit R [in German] Oct 2008 – Jan 2009
- Hochschuldidaktische Grundlagen fuer Internationale Doktorandinnen und Doktoranden im Bereich Teaching Assistant I [in German] 15 & 16 May 2008
- Introduction to RADAR Image Processing Oct 31 – Nov 4, 2005
- Einführung in Linux [in German] November 2004
- Special Decision Support System for Environmental Analysis 7 & 8 June 2004

### Online-courses

- [Fundamentals of Computing](#) series at Coursera Sep 2014 – On-going
- [Data Science Specialization](#) series at Coursera Apr – Oct, 2014
- National Integrated Environmental Process, Design & Organization Course, UNEP 5 to 30 Nov 2007  
Final assignment discusses key questions of an Integrated Environmental Assessment on *The Greek Forest Fire Problematic*.
- A practical Look at Quantum GIS September 2007
- Applied Statistics (e-learning course based on [ILLIAS](#)), Dept. for Forest Biometry, University of Freiburg, Germany Winter Sem. 2002/03

## Extracurricular

- Participation in [GRASS-GIS' Community Sprint in Genova 2013](#) 2 to 7 February 2012
- Support the translation of the official [OSGeo](#) website in [Greek](#) since May 2012
- Participation in [GRASS-GIS' Community Sprint in Prague 2012](#) 23 to 28 May 2012
- Attended the 5th greek [fosscomm](#) 12 & 13 May 2012
- Interview in the magazine [Greek Linux Format](#) (current [Linux Inside](#)) concerning burned area mapping using free open source software, in [Greek](#), Issue 22, June-August 2008, (accessed on October 25, 2011) May 2008
- Guide in the Wildlife Museum of the Institute for Wildlife & Wild management, Forestry Faculty, Aristotle University in Thessaloniki Winter 2001/
- Coordinated a voluntary work group of WWF-Hellas in Lefkimi, Evros, NE Greece Summer 2004
- in setting up a mountainous ecotouristic path August 1997

## Publications

Currently working on publications about burned area mapping using MODIS products – Some original links do not exist anymore

ISPRS-SC (2008). *Newsletter*. Online. International Society for Photogrammetry and Remote Sensing, Student Consortium. URL: <http://www.isprs-sc.org/newsletters>.  
geoland (2006a). *List of participants at the 3rd geoland OpenDay*. Online. 3rd geoland OpenDay, Vienna, Austria. URL: <http://web.archive.org/web/20091025004637/http://www.gmes-geoland.info/events/download/ListOfParticipants.pdf>.

- Alexandris, Nikos, Bruno Chatenoux, et al. (2013). *Monitoring The Restoration of Mangrove Ecosystems from Space*. Tech. rep. UNEP/GRID-Geneva Global Change & Vulnerability Unit 11, ch. Des Anémones 1219 Châtelaine Switzerland: UNEP/GRID-Geneva. URL: [www.unep.org/pdf/Monitoring\\_the\\_Restoration\\_of\\_Mangroves.pdf](http://www.unep.org/pdf/Monitoring_the_Restoration_of_Mangroves.pdf).
- Alexandris, Nikos and Patrick Pyttel (2012). *Mapping Disturbed Areas in Aged Coppice on Steep Slopes along Rhine & Moselle (Rheinland-Pfalz), A Visual Interpretation Approach based on True Colour Orthophotos*. English. Centre for Geospatial Science, University of Nottingham; Mimas Centre of Excellence, University of Manchester. URL: <http://elogeo.nottingham.ac.uk/xmlui>. Published.
- Alexandris, Nikos (2011). “Burned area mapping via non-centered SVD-based Principal Components Analysis using public domain data & free open source software.” Online at <http://www.freidok.uni-freiburg.de/volltexte/8399> (accessed January 2, 2012). Dissertation. Faculty of Forest & Environmental Sciences Albert-Ludwigs-University Freiburg im Breisgau, Germany. URL: <http://www.freidok.uni-freiburg.de/volltexte/8399>.
- Alexandris, Nikos and Nikos Koutsias (2009). “Estimating the Forest Fire Damage in Peloponnese (Greece, 2007) using MODIS products.” : *29th EARSel Symposium, Symposium Programme and Abstract Book*. Ed. by Ioannis Manakos et al. Oral presentation. MAICH Conference Center, Chania, Crete - Greece: MAICH, p. 4. URL: <http://earsel29.maich.gr>.
- Pyttel, Patrick, Jürgen Bauhus, and Nikos Alexandris (2009). *Stabilität von Stockausschlagwäldern in Steillagen entlang von Rhein und Mosel*. German. Tech. rep. Tenenbacherstr. 4, 79085 Freiburg i. Br., Deutschland: Waldbau-Institut, Universität Freiburg. Unknown.
- Kalamaras, Dimitris (2008). *Interview in the magazine Greek Linux Format (current Linux Inside) concerning burned area mapping using free open source software, (in Greek)*. Ο δασολόγος Νίκος Αλεξανδρής εξηγεί πως μπορεί να βοηθήσει το Linux και το ελεύθερο λογισμικό στην χαρτογράφηση των καμένων δασών. LINUX FORMAT 22 (ΙΟΥΛΙΟΣ–ΑΥΓΟΥΣΤΟΣ). Greek. Ed. by Dimitris Kalamaras. Magazine. Linux Inside, a greek magazine about Linux (former Greek Linux Format). Greece. URL: <http://web.archive.org/web/20080925193645/http://www.linuxformat.gr/?q=content/linux-format-22-io%3F%2%85%3%8E%2%BB%3%8E%2%B9%3%8E%2%BF%3%8F%2%83-%3%8E%2%B1%3%8F%2%85%3%8E%2%B3%3%8E%2%BF%3%8F%2%85%3%8F%2%83%3%8F%2%84%3%8E%2%BF%3%8F%2%83-2008> (visited on 10/25/2011).
- Samaras, Dimitris et al. (2007). “Climatic classification of central Sterea Hellas with the use of GIS [in Greek].” : *Proceedings of the 4<sup>th</sup> panhellenic congress ”modern tendencies in ecological research”*. Volos, Greece, pp. 156–157.
- Alexandris, Nikos (2006). *GMES Land Monitoring Core Service in Mediterranean Environments*. Exhibited during the 3rd geoland OpenDay. Poster about Interoperable Nomenclature (Fast Track Service and CORINE). URL: [http://web.archive.org/web/20091026124742/http://www.gmes-geoland.info/events/presentations.php?occ\\_id=43](http://web.archive.org/web/20091026124742/http://www.gmes-geoland.info/events/presentations.php?occ_id=43).

geoland (2006b). *Index of geoland Events*. Online. URL: <http://web.archive.org/web/20100510202737/http://www.gmes-geoland.info/events/index.php>.

geoland (2006c). *Overview of poster exhibition at the 3rd geoland OpenDay*. Online. 3rd geoland OpenDay, Poster Exhibition, Vienna, Austria. URL: [http://web.archive.org/web/20081121035536/http://www.gmes-geoland.info/events/download/Overview\\_PosterExhibition.pdf](http://web.archive.org/web/20081121035536/http://www.gmes-geoland.info/events/download/Overview_PosterExhibition.pdf).