

# CURRICULUM VITAE

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## PERSONAL INFORMATION

Full name	<b>GEORGE HABIB MITRI</b>
Education	Environmental Management and Planning of Natural Resources Satellite Remote Sensing (RS) application Forestry and wildfire risk management
Address	P.O. Box 60-192, Jal El Dib, Lebanon – Postal code: 1241 2020
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Nationality	Lebanese
Date of birth	17 OCTOBER 1977
Gender	Male
Civil status	Married

## EDUCATION

• Dates (from – to)	2004 – 2008
• University	University of Trieste – Trieste - Italy
• Principal subject	Forest cover monitoring using satellite remote sensing and field survey techniques
• Title of qualification awarded	<b>Ph.D.</b> (Methods for environmental bio-monitoring) <i>Graduation with distinction</i>
• Dates (from – to)	2003 – 2004
• University	Aristotle University - Thessaloniki, Greece
• Principal subject	Assessing post-fire impact on vegetation
• Title of qualification awarded	<b>M.Sc.</b> (Planning and Development of Natural Resources)
• Dates (from – to)	2001 – 2002
• University	Mediterranean Agronomic Institute of Chania (M.A.I.Ch.) - Crete, Greece Centre International de Hautes Etudes Agronomiques Méditerranéennes (CIHEAM) – France
• Principal subjects	Wildfire management in the Mediterranean
• Title of qualification awarded	<b>M.Sc.</b> (Environmental Management) <i>Grade A – Cum Maxima Laude</i>
• Dates (from – to)	2000 – 2001
• University	Mediterranean Agronomic Institute of Chania (M.A.I.Ch.) – Crete, Greece. CIHEAM – France
• Principal subjects	Environment; Mediterranean ecosystems; Geographic Information System and Remote Sensing
• Title of qualification awarded	<b>DSPU</b> (Diplôme Supérieur Post-Universitaire) – (Environmental Management). <i>Overall Grade: 16,67/20</i>
• Dates (from – to)	1998-2000
• University	“Saint Joseph University”, Department of Geography – Beirut, Lebanon
• Principal subjects	Environmental management and planning
• Title of qualification awarded	<b>License</b> (Environment and Land Planning )

## WORK EXPERIENCE

• Dates (from – to)	February 2010 – present
• Name and address of employer	University of Balamand – Koura, North Lebanon
• Sector	Environmental sciences and management
• Occupation or position held	Director of the Biodiversity Program - Institute of the Environment Assistant Professor – Department of Environmental Sciences - Faculty of Sciences

### Activities-projects records:

- 2013-2014: Project manager and lead expert on the project “Preparation of GHG emissions and Mitigation Chapter of Land Use and Land Use Change and Forestry (LULUCF) - Reference: LEB/CO RFP/91/12” funded by UNDP-Lebanon
- 2013-2014: Project manager and Principal Investigator on advancing forest fire research in Lebanon - Memorandum of Understanding signed between the University of Balamand and Lebanon Reforestation Initiative to 1) develop fire management educational materials, 2) produce fire management maps for improved forest fire management in Lebanon, and 3) design a FireWise demonstration plan.
- 2012-2014: Principal Investigator of the project “Towards a better assessment and management of Wildfire Risk in the Wildland-Urban Interface in Lebanon: gaining from the US experience” funded by USAID-PEER in cooperation with National Foundation of Science USA.
- 2011-2012: Project development and lead expert – “Proposed activities for the development of activities of Land Use in Lebanon’s Coastal Zone as Component B(i) under the Environmental Resources Monitoring Project” managed by UNEP and UNDP Lebanon.
- 2011-present: Member of the “Curriculum Development” Faculty of Science committee.
- 2010-2013: Researcher – “People for Ecosystem Based Governance in Assessing Sustainable Development of Ocean and Coast” Participation in the Venice (Italy) meeting in 2010 and in the Tulcea (Romania) workshop in 2011
- 2010-2012: Member of the University of Balamand team of the TEMPUS project “Developing Service-Learning and Civic Engagement Partnerships across the Curriculum” 158914-TEMPUS-1-2009-UK-TEMPUS-JPCR. January 2010 - December 2012. Participation in the Beirut meeting in 2010 and in the Tempus Tawasol conference that was held at the University of Roehampton, London, U.K., from 6.-12.9.2011.
- 2010-2012: Principal investigator – “Assessment of land degradation associated with armed conflicts in North Lebanon with the combined use of Remote Sensing and GIS data” funded within the framework of the project “Conflict and Environment in North-Lebanon: A longitudinal study of environmental and socio-economic mitigation processes in conflict-affected areas” by WOTRO Science for Development – the Netherlands Organization for Scientific Research.
- 201-2012: Project development and management, Principal Investigator – “Testing a Pilot Forest Fire Alerting System in Farid and Daad Karam Reserve – University of Balamand” funded by the University of Balamand Research Council.
- 2010-2011: Project development and management, Principal Investigator – “Towards the development of an operational model for monitoring landcover change in Lebanon” funded by Planet Action SPOT initiative.
- 2010-2011: Project development and management, Principal Investigator - “Fuel type mapping in North Lebanon for improved forest fire management” funded by the National Council for Scientific Research.

### Theses supervision

- 2012-2013: “Monitoring Post-Fire Regeneration of *Pinus brutia* in Lebanon” prepared by Amira El Halabi
- 2012-2013: “The calculation of Lebanon’s Greenhouse Gas emissions/removals of Land Use and Land Use Change and Forestry: a trend analysis for the period 1994-2012” prepared by Hisham Bou Kamel
- 2012-2013: “Assessment of seasonal and annual allergenic type of pollen in North Lebanon between 2008 and 2012 and their relationship to climatic conditions” by Majd Karaan
- 2011-2012: “Investigating the use of Remote Sensing data for improved forest fire management plans in Lebanon” prepared by Lilliane Salloum

<ul style="list-style-type: none"> <li>Dates (from – to)</li> <li>• Name and address of employer</li> <li>• Job details</li> </ul>	<p>2007 – January 2010</p> <p>Association for Forests, Development and Conservation (AFDC) – Beirut – Lebanon</p> <p><b><u>Programs coordinator (2008-2010):</u></b></p> <ul style="list-style-type: none"> <li>• Nature and conservation program: fire fighting, reforestation, rural development, ecotourism</li> <li>• Outreach and capacity building program: awareness and capacity building</li> <li>• Research and development program: Internship, research studies and project development</li> <li>• Environmental education program: academic curriculum, universities and schools</li> </ul> <p><b><u>Project development (selected projects):</u></b></p> <ul style="list-style-type: none"> <li>• Spanish Cooperation funded Project – “Supporting a sustainable institutional mechanism for forest fire control in Lebanon”.</li> <li>• EU funded project – “A local scale strategy for Forest Fire Management in Lebanon”</li> <li>• Dutch funded project – “Development of a community-related forest”</li> </ul> <p><b><u>Research and Development Program coordinator (2007-2008):</u></b></p> <p><b><u>Project development and coordinator:</u></b></p> <ul style="list-style-type: none"> <li>• EU funded project – “Towards Developing and Implementing a National Strategy for Forest Fire Management in Lebanon”</li> </ul> <p><b><u>Project development (selected projects):</u></b></p> <ul style="list-style-type: none"> <li>• USAID funded project – “Towards the Implementation of the Youth Declaration- Particulate Matter (PM) 2.5 Sampling” in cooperation with the American University of Beirut</li> <li>• AFDC funded project – “Autonomous Sensor network for Remote Early Detection of Forest Fires” (in collaboration with the Electrical and Computer engineering department at the American University of Beirut).</li> <li>• Lebanon Recovery Fund Project through FAO - “Integrated forest fires management – forest fires prevention, forest fires fighting (control) and damaged forests assessment and rehabilitation”.</li> <li>• Italian Cooperation funded Project – “Conserving and Restoring Forests in the South” in cooperation with WWF Italy</li> <li>• Italian Cooperation funded Project - "Emergency Restoration Plan: Reforestation &amp; establishment of tree nursery”</li> </ul> <p><b><u>Specific tasks:</u></b></p> <ul style="list-style-type: none"> <li>• Representative to the “National Executive and Technical Forest Fire Prevention and Forest Restoration Committee” established according to the Ministerial decision number 118/2007 dated November 9, 2007 registration number 5295</li> <li>• Coordinator and editor for the development of Lebanon's National strategy for forest fire management approved by the Lebanese Council of Ministers (May 13, 2009 Decision N. 52)</li> <li>• Lead expert for the development of the “state of Lebanon’s forests 2007”</li> <li>• Assigned academic expert to develop a national curriculum on forest fire management</li> <li>• Lead expert for the development and implementation of a Memorandum of Understanding between the Faculty of Agriculture (Lebanese University) and AFDC (signed on 16-7- 2009)</li> </ul>
<ul style="list-style-type: none"> <li>• Type of business</li> </ul>	<p>Forest and forest fire management, conservation, biodiversity, advocacy, environmental education and awareness, sustainable development, environmental management, eco-tourism.</p>

<ul style="list-style-type: none"> <li>• Dates (from – to)</li> <li>• Name and address of employer</li> <li>• Position</li> <li>• Courses</li> </ul>	<p>Fall 2009-2010</p> <p>Dpt. of Environmental Sciences, Faculty of Sciences, University of Balamand, North Lebanon</p> <p>Part-time Faculty member</p> <p>Restoration and Reclamation Ecology</p> <p>Natural Resources Planning and Policy</p> <p>General Ecology Laboratory</p>
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• Dates (from – to)	Fall 2009 – 2010
• Name and Address of employer	Faculty of Agriculture Engineering and Veterinary Sciences, Lebanese University (LU), Beirut
• Position	Part-time Faculty member
• Courses	Forest Fire Management

• Dates (from – to)	2005 – 2006
• Name and address of employer	Aristotle University, Thessaloniki, Greece
• Project details	ISOTEIA – Integrated System for the promotion of Territorial- Environmental Impact Assessment in the frame of spatial development - INTEREG IIIB CADSES, Code: 3B093
• Type of business or sector	Environmental impact assessment
• Occupation or position held	Research Associate

• Dates (from – to)	2002 – 2004
• Name and address of employer	Mediterranean Agronomic Institute of Chania (M.A.I.Ch.), Crete, Greece
• Project details	<ul style="list-style-type: none"> <li>• EUFIRELAB - research project on forest fires funded by the EU. EVR1-CT-2002-40028.</li> <li>• SPREAD – EU forest fires research project supported by the EU EVG1-2001-00043.</li> <li>• Fire Danger Estimation Index - Financed by the Greek Government, Civil Protection.</li> <li>• EC (AIDCO) - CIHEAM Co-operation Project.</li> </ul>
• Type of business or sector	<p>Forest management and post-fire vegetation recovery.</p> <p>Operational models for environmental impact assessment.</p> <p>Lead expert in fire risk mapping - Production of regularly updated vegetation condition maps for the whole Greece using MODIS data.</p> <p>Evaluation of environmental changes in the Eastern Mediterranean.</p>
• Occupation or position held	Research Associate

### Short-term Assignments

- Visiting professor to support student training workshops as part of the EACEA Tempus Project on Service-Learning and Civic Engagement - National University of Ireland, Galway, 29<sup>th</sup> September – 2<sup>nd</sup> October 2012.
- Consultant to Tragsa (Spain) for the review of the National Forest Fire Prevention Plan – Lebanon 2012
- Consultant to Cima Research Foundation (Italy) for monitoring post-fire vegetation recovery - Project “Strengthening the National Framework to mitigate Rural-Forest Fire Risk” – Lebanon, 2011
- Short-term expert/facilitator in the PPRD South Training Workshop for Staff-Level Official on Wildfires – Tirana, Albania, 2010 - Euromed Programme on Prevention, Preparedness and Response to Natural and Man-made Disasters.

## INTERNATIONAL WORKSHOPS , MEETINGS, AND COURSES

USA 10-16 August 2013	Scientific visit to NASA (Goddard Space Flight Center, Maryland) – Participation to GLOBE Science advisory committee and the 17 <sup>th</sup> GLOBE Annual partner meeting – Maryland University College, Maryland
USA 5-15 June 2013	Scholar visit to the forestry lab University of Colorado (UOC, Boulder) and to Montana State University (MSU, Bozeman) and to the Missoula Fire Sciences Laboratory, Montana (talks at MSU and Missoula lab)
Lebanon 15-16 May 2013	Keynote speaker: “Situational analysis of the current land use of the coastal zone in Lebanon: LCLU changes and socio-economics in the coastal area of Lebanon. In The Arab and Mediterranean Conference on coastal environmental resources monitoring and management
Slovenia 18-19 April 2013	30th meeting of the EU Forest Fire Expert Group
Germany 25-30 November 2012	Visiting Professor at the University of Freiburg (Global Fire Monitoring Centre), Freiburg
Italy 5-6 November 2012	29th meeting of the EU Forest Fire Expert Group – ISPRA, Joint Research Center
Spain 15-20 October 2012	Visiting Professor at the University of Lleida, Spain
Lebanon 13-14 September 2012	Beirut Energy Forum – 3rd Edition
USA 15-20 July 2012	GLOBE Science advisory committee meeting and 16th GLOBE Annual Partner Meeting, Minneapolis
Greece 23-25 May 2012	1st Workshop on Temporal Analysis of Satellite Image Data. Mykonos, Greece
Lebanon 22-24 March 2012	18th International Science Meeting: New discoveries in Sciences, Beirut, Lebanon
Lebanon 27-28 October 2011	Annual Conference of the Arab Forum for Environment and Development: Green Economy: Sustainable Transition in a Changing Arab World
Portugal 15-18 November 2010	VI International Conference on Forest Fire Research
Lebanon 4-5 November 2010	Annual Conference of the Arab Forum for Environment and Development: Water: Sustainable Management of a Scarce Resource
Jordan 13-15 December 2009	UNEP Regional Consultation Meeting in West Asia In preparation for the 11th GCSF
Lebanon 20-21 June 2009	Propagation of Native plant species (by Rosa Colomer-IUCN)
Lebanon 16-19 February 2009	Incident Command System (certificate – United States Forest Service)
Lebanon 9-12 February 2009	Forest Fire Forensic Investigation (certificate - United States Forest Service)
Spain 5-14 October 2008	IUCN World Conservation Congress, Barcelona
Spain 10-12 December 2007	Mediterranean Mountains in a changing World – Strategic guidelines for the development of Mediterranean Mountains Action Plans – IUCN Med
Portugal 27-30 November 2006	5 <sup>th</sup> International Conference on Forest Fire Research
Spain 16-18 June 2005	5 <sup>th</sup> International Workshop on Remote Sensing and GIS Applications to Forest Fire Management: Innovative Concepts and Methods in Fire Danger Estimation, University of Zaragoza
Belgium 5 – 7 June 2003	4 <sup>th</sup> International Workshop on Remote Sensing and GIS Applications to Forest Fire Management: Innovative Concepts and Methods in Fire Danger Estimation, Ghent University, Ghent
Portugal 18-23 November 2002	4 <sup>th</sup> International Conference of Forest Fire Research 2002 Wildland Fire Safety Summit, Coimbra

## External activities

- Nominated expert to the UNFCCC Inventory Review Training course
- Member of the Bentael Nature Reserve (Law No.11 on February 25, 1999-Lebanon) Management Committee (Decision No. 1/119 – 2 August 2012)
- Member of the 'Expert Group on Forest Fires' established in 1998 by DG Environment for the development and maintenance of EFFIS (European Forest Fires Information System)
- Member of the Ecosystem Management Commission of the International Union for Conservation of Nature (IUCN).
- Member of the GLOBE (Global Learning and Observations to Benefit the Environment) Science Advisory Committee 2012-2014
- Member of the GLOBE International scientific community
- Member of the European Association of Remote Sensing Laboratories – Forest Fire Special Group (nominated by the Ministry of Environment)
- Reviewer of a large number of articles submitted to International scientific journals such as the International Journal of Remote Sensing, International Journal of Wildland fire, Environmental management, ISPRS Journal of Photogrammetry and Remote Sensing, IEEE Transactions on Geoscience and Remote Sensing.

## SCHOLARSHIPS AND AWARDS

(1 August 2012 – 31 July 2013) (November 17 <sup>th</sup> , 2010)	Scholar mobility award (European Commission - Erasmus Mundus - MSc European Forestry) First prize award for the best scientific research on the topics of fire effects, fire safety, and fire suppression and socio-economic factors (6 <sup>th</sup> International Conference on Forest Fire Research Coimbra – Portugal, 15-18 November 2010)
(October 2005 - June 2007)	Full scholarship for doctoral studies – Centre National de Recherche Scientifique - Lebanon
(October 2003 - June 2005) (September 2003)	Full scholarship for post-graduate studies. State scholarships foundation (I.K.Y.) - Greece Selected thesis award (CIHEAM)
(October 2001 – June 2002)	Full scholarship for Master of Science studies. Agronomic Institute of Chania. Centre International de Hautes Etudes Agronomiques Méditerranéennes (CIHEAM).
(October 2000 – June 2001)	Full scholarship for post-graduate studies. Mediterranean Agronomic Institute of Chania. Centre International de Hautes Etudes Agronomiques Méditerranéennes (CIHEAM).

## LANGUAGES

MOTHER TONGUE	ARABIC		
	FRENCH	ENGLISH	GREEK
• Reading skills	Excellent	Excellent	Fair
• Writing skills	Excellent	Excellent	Fair
• Verbal skills	Very Good	Excellent	Fair
TECHNICAL SKILLS AND COMPETENCES	Use of main systems of Windows - Image processing Software's: PCI Geomatica, Erdas Imagine, Envi - Object-oriented image analysis software: eCognition - GIS software: ArcView, ArcInfo and ArcGIS - Decision Support software package: DEFINITE Statistic packages: SPSS 10.0 - Graphic tools: Adobe, Photoshop - Global Positioning System (GPS), Leica system 500 Dual Frequency Antenna AT502 - Remote sensing special equipment: Agricultural Digital Camera (ADC and NewADC-DYCAM / Red-NIR), Hyper-spectral Scanner Radiometer (ASD – Field Spec Hand Held, 512 channels).		

## PAPERS, PROCEEDINGS AND BOOK CHAPTERS

- Mitri, G. and Gitas, I. 2013. Mapping post-fire forest regeneration and vegetation recovery using a combination of very high spatial resolution and hyperspectral satellite imagery. *International Journal of Applied Earth Observation*, Volume 20, 60-66.
- Mitri, G., Nader, M., Van der Molen, I. and Lovett, J. 2012. Evaluating fire risk associated with repetitive armed conflicts. In. *Modelling Fire Behaviour and Risk*, Spano, D., Bacciu, V., and Sirca, C. (Eds.). DipNeT and IAFENT, Sassari, Italy. Pp. 205-210
- Mitri, G., Nader, M., Van der Molen, I. and Lovett, J. 2012. Monitoring Landcover changes on the coastal zone of North Lebanon using Object-Based Image Analysis of multi-temporal Landsat images. In. *1st Workshop on Temporal Analysis of Satellite Images* (Ban, Y., Ed.), 24 - 25 May 2012, Mykonos Island, Greece.
- Mitri, G. and Fiorucci, P. 2012. Towards monitoring post-fire vegetation cover dynamics in the Mediterranean with the use of object-based image analysis of Landsat images. In. *1st Workshop on Temporal Analysis of Satellite Images* (Ban, Y., Ed.), 24 - 25 May 2012, Mykonos Island, Greece.
- Gitas, I., Mitri, G. Veraverbeke, S. and Polychronaki, A. 2012. Advances in Remote Sensing of Post-Fire Monitoring: a Review. In *Remote Sensing of Biomass: Principles and Applications*. Ed. T. E. Fatoyinbo, INTECH. 143-176.
- Mitri, G., Salloum, L. and Nader, M. 2012. Forest fuel type mapping in Lebanon. 18th International science meeting. 22-24 March 2012. Lebanon
- Mitri, G. and Gitas, I. 2011. The role of Remote Sensing in the implementation of Lebanon's National Strategy for forest fire management. In *8th International Workshop on Advances In Remote Sensing And GIS Applications In Forest Fire Management* Remote sensing of forest fires,

from local to global assessments. San-Miguel Ayanz, J., Gitas, I., Camia, A., Oliveira, S. (Eds.). 20-21 October 2011, Stresa, Italy. P.209

Mitri, G., Nader, M. and Salloum, L. 2011. Fuel type mapping in the Mediterranean region of North Lebanon using Object-Based Image Analysis of ASTER imagery. In 8th International Workshop on Advances In Remote Sensing And GIS Applications In Forest Fire Management Remote sensing of forest fires, from local to global assessments. San-Miguel Ayanz, J., Gitas, I., Camia, A., Oliveira, S. (Eds.) 20-21 October 2011, Stresa, Italy. P.39

Mitri, G., Nader, M., Van der Molen, I. and Lovett, J. 2011. The use of satellite imagery for the assessment of fire risk associated with repetitive armed conflicts in North Lebanon. In. International Conference on Fire Behaviour and Risk Modelling, Duce, P. and Spano, D. (Eds.). Alghero, Italy, 4-6- October 2011. P.159.

Sakr, G., Elhadj, I., and Mitri, G. 2011. Efficient Forest Fire Occurrence Prediction for Developing Countries using Two Weather Parameters. International Scientific Journal Engineering Applications of Artificial Intelligence. Volume 24, Issue 5, Pages 888-894.

Sakr, G., Elhadj, I., and Mitri, G. 2010. Artificial Intelligence for Forest Fire Prediction: A Comparative Study. In.: VI International Conference on Forest Fire Research (Viegas, D. Editor), 15-18 November 2010. Coimbra, Portugal (ADAI). P.37

Mitri, G. and Gitas, I. 2010. Mapping post-fire forest regeneration and vegetation recovery with the combined use of very high spatial resolution and hyperspectral satellite imagery. In: VI International Conference on Forest Fire Research (Viegas, D. Editor), 15-18 November 2010, Coimbra, Portugal (ADAI). P.262

Sakr, G., Elhadj, I., Mitri, G., and Wejinya, U. 2010. Artificial Intelligence for Forest Fire Prediction. IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM 2010). July 6-9, 2010, Montreal, Canada.

Mitri, G. and Gitas, I. 2010. Mapping post-fire vegetation regeneration using EO-1 Hyperion. IEEE Transactions on Geoscience and Remote Sensing. Volume 48, Number 3, pp. 1613-1618

ElHadj, I and Mitri, G. 2009. Remote Sensing for Forest Fire Prediction and Detection. 7emes journées géographiques Télédétection, Statistiques et Sciences Sociales: Quelles interactions pour quelles fins, Beirut, 29-30 April 2009.

Gitas, I., De Santis, A., and Mitri, G. 2009. Remote Sensing of Burn Severity. In. Earth Observation of Wildland Fires in Mediterranean Ecosystems (Ed. Chuvieco, E.). Springer-Verlag Berlin Heidelberg, pp. 129-148.

Mitri, G. and Gitas, I. 2008. Mapping the severity of fire using object-based classification of Ikonos imagery. *International Journal of Wildland Fire*, Volume 17, Number 3, 431-442.

Mouflis G., Gitas, I., Iliadou, S., Mitri, G.. 2008. Assessment of the visual impact of marble quarry expansion (1984-2000) on the landscape of Thasos island, NE Greece. *International Journal of Landscape and Urban Planning*, Volume 86, Nb. 1, 92-102.

Mitri, G. and Gitas, I. 2007. Mapping post-fire vegetation regeneration using EO-1 Hyperion. The 6th International Workshop of the EARSeL Special Interest Group (SIG) on Forest Fires, Thessaloniki, Greece. 26 - 29 September 2007.

Gitas, I., Mouflis, G., Mitri, G., Tsakalidis, S., Iliadou, S., Minakou, H. 2007. Assessment of the impact of forest fires and marble quarries on the environment of Thasos island. *Landscape Architecture and New Technologies*. 25-26 May, Kavala, Greece.

Mitri, G. and Gitas I. 2006. Fire type mapping using object-based classification of IKONOS imagery. *International journal of wildland Fire*, Volume 15, Number 4, 457-462.

Gitas, I., Mitri, G., Kazakis, G., Ghosn, D. and Xanthopoulos, G. 2006. Fuel type mapping in Anopolis, Crete by employing QuickBird imagery and object-based classification. *Forest Ecology and Management*. Volume 234, Supplement 1, Page S228.

Gitas, I., Mitri, G., Kazakis, G., Ghosn, D., Xanthopoulos, G. 2006. Fuel type mapping in Crete by employing QuickBird imagery and object-based classification. 5th International Conference on Forest Fire Research. 27 to 30 November 2006, Portugal.

Polychronaki, A., Gitas, I. and Mitri, G. 2006. The development of an object-oriented model for burned area mapping using an atmospherically and non-atmospherically corrected ASTER image. RSPSoc 2006 Annual Conference Understanding a Changing World Integrated approaches

to monitoring, measuring and modelling the environment. 5-8th September 2006 Fitzwilliam College, Cambridge, U.K. <http://www.uflm.cam.ac.uk/rspso-2006>.

Mitri, G. and Gitas I. 2005. Mapping the type of fire using object-based classification of IKONOS imagery. In: Juan de la Riva, Fernando Perez-Cabello and Emilio Chuvieco (Editors), 5<sup>th</sup> International workshop on remote Sensing and GIS Applications to Forest Fire Management: Fire Effects Assessment. June 16-18th, 2005 Zaragoza (Spain), 162-167.

Mitri G., Gitas I., 2004. A semi-automated object-oriented model for burned area mapping in the Mediterranean region using Landsat-TM imagery. *International Journal of Wildland Fire*, Volume 13, Number 3, 367–376.

Gitas I., Mitri G., and Ventura G., 2004. Object-Oriented Image Analysis for Burned Area Mapping using NOAA-AVHRR Imagery in Creus Cape, Spain. *Remote Sensing of Environment*. Volume 92, Number 3, 409-413.

Mitri G. and Gitas I., 2004. A performance evaluation of a burned area object-based classification model when applied to topographically and non-topographically corrected TM imagery. *International Journal of Remote Sensing*. Volume 25, Number 14, 2863–2870.

Gitas I., Mitri G., Avyikou I and Diamanti E. 2004. Vegetation greenness mapping of Greece using MODIS imagery. MODIS workshop, June 24-25, University of Valladolid, Spain.

Mitri G. and Gitas I., 2003. A performance evaluation of a burned area object-oriented classification model when applied to topographically and non-topographically corrected TM imagery. 4<sup>th</sup> EARSeL Workshop on Forest Fire Monitoring and Mapping (Emilio Chuvieco). EARSeL, 5-7 June, Ghent, Belgium, 187-191.

Gitas I., Chuvieco E., Mitri G., and Ventura G., 2003. Object-Oriented Image Analysis for Burned Area Mapping using NOAA-AVHRR Imagery in Creus Cape, Spain. 4<sup>th</sup> EARSeL Workshop on Forest Fire Monitoring and Mapping (Emilio Chuvieco). EARSeL, 5-7 June, Ghent, Belgium, 177-181.

I.Z. Gitas, G.H. Mitri, P. Barbosa, N. Assad, I. Jomaa, C. Papageorgiou, and T.Turk, 2003. Land Cover Change Detection Using NOAA-AVHRR Images taken from 1989 to 2002 for the Eastern Part of the Mediterranean Region as a Tool to Support Decision-Making. Options Méditerranéennes (CIHEAM), Série B – n° 46. ISBN 2-85352-277-6.

Karydas, C. G., Silleos, N. G., Gitas, I. Z., and Mitri, G. H., 2002. Development of an object oriented classification model for managing and monitoring citrus plantations. In: Proceedings of the 9th International Symposium on Remote Sensing, SPIE, Agia Pelagia, Crete, Greece, 23-27 September.

Mitri G. and Gitas I., 2002. The development of an object-oriented classification model for operational burned area mapping on the Mediterranean island of Thasos using LANDSAT TM images. In: ADAI, Portugal Viegas, D. (Editor), Forest Fire research and Wildland Fire Safety. Millpress, Luso, Coimbra, Portugal, pp. 227-244.

## **BOOKS, REPORTS, AND ARTICLES**

Nader, M., Mitri, G. and Al Daia, R. "Environmental Resources Monitoring in Lebanon project, Analysis of the current land use and socio-economic activities in the coastal zone, UNEP-Ministry of Environment, 2013 to be published".

Mitri, G. 2012. Forest Fires in Lebanon. In: Forest Fires in Europe, Middle East, and North Africa 2011. Joint Report of JRC and Directorate-General Environment. Publications Office of the European Union 2012. Luxembourg. Pp 76-78

Mitri, G. 2011. Using Remote Sensing to improve the management of Lebanon's forests. In, Martin, P. Georg Gratzler, F., Alemayehu Duguma, L., Kohler, T., Maselli, D. and Romeo, R. (editors) (2011). Mountain Forests in a Changing World - Realizing Values, addressing challenges. Published by FAO/MPS and SDC, Rome.

Mitri, G., Rodriguez, F., Palacios, G., and Senra Rivero, F. (2010). Introduction to Forest Fire management in Lebanon. (Mitri, G. Ed.) A publication of the Association for Forests, Development and Conservation, Tragsa and the University of Cordoba. Beirut, Lebanon.

Mitri, G. (editor). 2009. Lebanon's National Strategy for Forest Fire Management (Decision No. 52 – 2009). A publication of the Ministry of Environment and the Association for Forests, Development and Conservation – Beirut, Lebanon.



Mitri, G. (editor). 2009. Techniques in forest fire control and prevention. A publication of the Ministry of Environment and the Association for Forests, Development and Conservation – Beirut, Lebanon.

Mitri, G. (editor). 2009. Assessment of forest tree nurseries in Lebanon. Published report, Ministry of Environment and Association for Forests, Development and Conservation, February 2009.

Mitri, G. (editor). 2008. Integrated Forest Management and Monitoring Plan for Sustainable Fire Prevention, and Control, and Forest Rehabilitation in Lebanon. In Proceedings of the International workshop on forest fire management in Lebanon, 7-9 May 2008, Beirut-Lebanon.

Mitri, G. 2008. Engaging religious authorities in forest conservation and rural development. In. Mediterranean Mountains in a changing world: guidelines for developing action plans (Regato, P. and Salman, R.). IUCN, Malaga, Spain. P.33.

Mitri, G. and Elhadj, R. 2008. State of Lebanon's Forests 2007. Mitri, G. (Editor) A publication of the Association for Forests, Development and Conservation (AFDC), the Italian Cooperation, WWF-Italy, UNDP, and the International Union for Conservation of Nature (IUCN).

Mitri, G. (editor). 2007. War impact on forest resources and olive groves in South Lebanon (Final report). AFDC/UNDP/SAAR, Beirut, Lebanon, pp. 80.