

## CURRICULUM VITAE

**Dr. Dimitrios D. Alexakis**

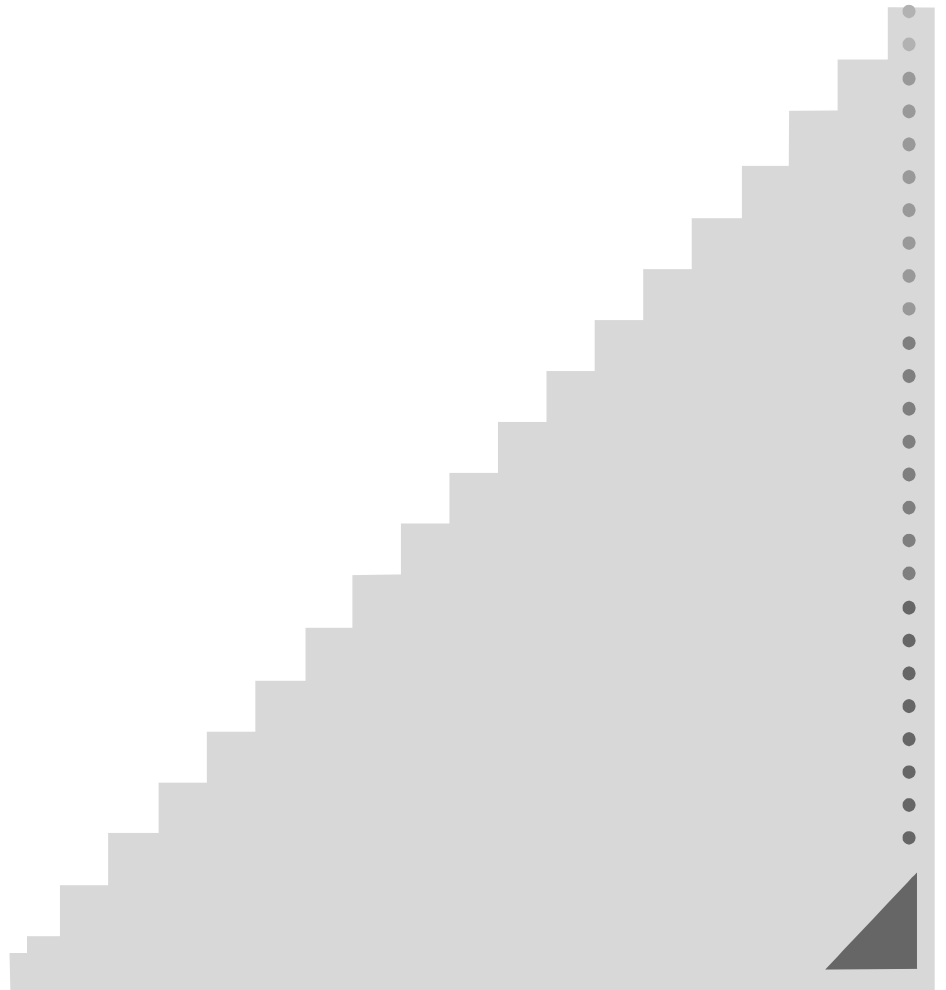
GEOLOGIST (*B.Sc., M.Sc., Ph.D.*)

Assistant Researcher (Researcher C')

GeoSat ReSeArch Lab

Institute for Mediterranean Studies

Foundation for Research and Technology Hellas (FORTH)



Rethymno, Crete, Greece – March 2021



## Curriculum Vitae

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### PERSONAL INFORMATION

Date of Birth:	19-04-1977
Place of Birth:	Chania, Crete, Greece
Nationality	Greek
Family Status	Married
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Google Scholar:	<a href="https://scholar.google.gr/citations?user=a9kin2MAAAAJ&amp;hl=en">https://scholar.google.gr/citations?user=a9kin2MAAAAJ&amp;hl=en</a>
Research Gate:	<a href="https://www.researchgate.net/profile/Dimitrios_Alexakis">https://www.researchgate.net/profile/Dimitrios_Alexakis</a>
Scopus:	<a href="https://www.scopus.com/authid/detail.uri?authorId=55901750800">https://www.scopus.com/authid/detail.uri?authorId=55901750800</a>

I am a Geologist and hold a B.Sc. (1996-2001), a M.Sc. (2001-2003) and a Ph.D. (2004-2009) in the fields of “Remote Sensing”, “Geographic Information Systems/GIS” and “Physical Geography – Geomorphology” from the **School of Geology, Aristotle University of Thessaloniki, Greece**. I have worked as visiting Professor and Postdoctoral Researcher at the Department of Civil Engineering and Geoinformatics, Cyprus University of Technology, Cyprus (2011-2014). I have also worked as Adjunct Lecturer and Associate Researcher at Technological Educational Institute of Crete, Greece (2004-2010) and as Associate Researcher at School of Environmental Engineering, Technical University of Crete, Greece. My scientific interests involve applications of Remote Sensing (Satellite, UAV, Field Spectroradiometry, SAR, aerial) and GIS in the fields of Geomorphology, Hydrology, Archaeology and Environmental monitoring. During my studies, I have received several awards and

scholarships (**Marie Curie Fellowship, Greek State Scholarship Foundation (IKY) scholarship**). I have extensive teaching experience as Lecturer in the fields of Remote Sensing and GIS. I have published **44 peer reviewed papers** in high impact scientific journals (**Scopus h-index: 19, Google h-Index: 22, 1756 citations**), **6 book chapters** and **88 papers and posters in international and national (peer-reviewed) conference proceedings**. I am acting as **journal reviewer for 25 scientific journals** and I am member of the editorial board of “**Remote Sensing MDPI**” and “**Open Geosciences**” journal. I have also given a considerable number of invited lectures and keynote speeches regarding applications of Remote Sensing and GIS in Earth sciences. I have been involved in **more than 40 International and National funded research projects** such as Horizon 2020, ERASMUS+ 2020, FP7 Research, INTERREG III, Thales, Cyprus Research Promotion Foundation etc. dealing with Remote Sensing and GIS applications in environmental surveillance.

Qualifications	Number
Publications (peer review journals)	<b>44</b>
h-Index (Scopus)	<b>19</b>
h-index (Google Scholar)	<b>22</b>
Citations	<b>1756</b>
Publications in national/international conferences	<b>51</b>
Extended abstract in international conferences	<b>37</b>
Participation in national and international funded scientific projects	<b>42</b>
Invited lectures	<b>15</b>
Dissertations Co-tutoring	<b>13</b>
Reviewer in peer review journals	<b>27</b>
Teaching experience (GIS and Remote Sensing)	<b>10 (years)</b>
Member of Organizing and Scientific Committee of International Conferences	<b>6</b>
Scholarships / Awards	<b>6</b>

## 1. EDUCATION

<b>2004- 2009</b>	<b>PhD in Satellite Remote Sensing, GIS and Geomorphology</b> Thesis title: <i>“The Employment of Geomorphology, Satellite Remote Sensing and GIS in the Mapping and Modeling of the Archaeological Site Location”</i> Department of Natural and Environmental Geography, School of Geology, Aristotle University of Thessaloniki. Degree Classification : Excellent
<b>2001- 2003</b>	<b>MSc in Satellite Remote Sensing, GIS and Geomorphology</b> Thesis title: <i>“Multi-temporal monitoring of mountain Kamila (Greece) with the use of GIS and Remote Sensing. An environmental approach”</i> Department of Physical and Environmental Geography, School of Geology, Aristotle University of Thessaloniki Degree Classification : 9.35 (Maximum 10.0)
<b>1996 -2001</b>	<b>BSc in Geology</b> School of Geology, Faculty of Sciences, Aristotle University of Thessaloniki Degree Classification : Very Good
<b>1995</b>	Graduation from the E.P.L. High school of Chania, Crete, Greece

**2. ACADEMIC HONORS AND AWARDS / MEMBER OF SCIENTIFIC AND ORGANIZING COMMITTEES**

2021	2.24 Member of the <b>Evaluation Committee</b> for 2021 <i>Remote Sensing MDPI Travel Award</i>
2020	<p>2.23 Member of the intergovernmental committee: <i>“Climate change impacts on World Heritage Cities (CCI-WHC)”</i> of <i>Group on Earth observation (GEO)</i>.</p> <p>2.24 Member of the <b>organizing committee</b> of <i>“Research (Remote Sensing Techniques for Archaeology)” summer school</i>, 21-26 September, Rethymno, Crete, Greece.</p> <p>2.23 Member of the <b>organizing committee</b> of <i>“STABLE (Structural Stability Risk Assessment)” summer school</i>, 14-21 September 2020, Rethymno, Crete, Greece.</p> <p>2.22 <b>Scientific coordinator</b> of <i>“Copernicus Academy”</i> initiative for IMS/FORTH.</p> <p>2.21 Member of the <b>Scientific Committee</b> of <i>“Water efficiency and Climate Resilient Agriculture”</i> congress, July 15-17, 2020, Chania, Crete, Greece.</p>
2019	<p>2.20 Member of <i>the Editorial Board</i> of <i>“Remote Sensing” MDPI journal</i> (“Environmental Remote Sensing” section).</p> <p>2.19 Member of <i>Body of Knowledge for GI/EO</i> of <i>EO4GEO</i> initiative <a href="http://www.eo4geo.eu/alliance/">http://www.eo4geo.eu/alliance/</a>.</p> <p>2.18 Member of <i>verification - certification report committee</i> of research projects for the <b>General Secretariat for Research and Technology Hellas (FORTH)</b>.</p> <p>2.17 Member <i>of the review panel of the Research Institute of the University of Bucharest (ICBU), Post-Doctoral Fellowship</i> Program, October, 2019.</p> <p>2.16 Member <i>of the review panel of Geological Survey of Ireland, Post Doctoral Fellowship</i> Program, June-July 2019.</p>
2018	<p>2.15 <b>Member of the Scientific Committee</b> of the <i>“CAA-GR Conference”</i>, June 19-20, 2018, Limassol, Cyprus.</p> <p>2.14 <b>Keynote Speaker</b> in the congress <i>“International Workshop on Climate Change and Soil Salinity Dynamics”</i>, 11-12 April 2018, Arabian Gulf University, Manama, Kingdom of Bahrain.</p> <p>2.13 Member of the <b>Scientific Committee</b> of the <i>“38<sup>th</sup> Annual EARSeL Symposium Earth Observation Supporting Sustainability Research”</i>, July 9-12, 2018, Chania, Crete, Greece.</p>
2017	<p>2.12 Member of <b>EGU (European Geosciences Union) Evaluation committee for Scientific Meetings requesting EGU</b> financial support.</p> <p>2.11 <b>Convener</b> of special session: <i>“Assessment of climate hazards’ impact on natural and cultural environment: Remote sensing and GIS applications”</i> (<a href="http://meetingorganizer.copernicus.org/EGU2017/session/23593">http://meetingorganizer.copernicus.org/EGU2017/session/23593</a>) in the frame of <b>EGU-European Geosciences Union, General Assembly, Vienna, Austria</b>, April 2017.</p>

	<b>2.10 Certificate of outstanding contribution in reviewing</b> from journal “ <i>The Egyptian journal of remote sensing and Space Science</i> ”.
<b>2014</b>	<p><b>2.9</b> Member of the <b>Scientific Committee</b> of the conference “<i>Computer Applications and Quantitative Methods in Archaeology</i>”, March 7-8, 2014, Rethymno, Crete, Greece.</p> <p><b>2.8</b> Member of the <b>Scientific Committee</b> of the “<i>Second International Conference on Remote Sensing and Geoinformation of Environment - RSCy2014</i>”, April 7-10, 2014, Paphos, Cyprus.</p> <p><b>2.7</b> <b>Best Poster Award</b> at the “<i>Second International Conference on Remote Sensing and Geoinformation of Environment - RSCy2014</i>”, April 7-10, 2014, Paphos, Cyprus.</p>
<b>2013</b>	<p><b>2.6</b> Member of the <b>Scientific Committee</b> of the “<i>13<sup>th</sup> International Congress of the Geological Society of Greece</i>”, 5-8 September, 2013, Chania, Crete, Greece.</p> <p><b>2.5</b> Member of the <b>Scientific Committee</b> of the “<i>Second International Conference on Remote Sensing and Geoinformation of Environment - RSCy2014</i>”, April 8-10, 2013, Paphos, Cyprus.</p>
<b>2007</b>	<b>2.4</b> <b>Travel Grant</b> for the participation in <i>35<sup>th</sup> International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA)</i> , 2-6 of April 2007, Berlin, Germany.
<b>2006</b>	<b>2.3</b> <b>Marie Sklodowska-Curie Fellowship</b> from European Research Committee as Academic Visitor at <i>University College of London (UCL)</i> , 1/1/2006-31/3/2006, London, UK.
<b>2003</b>	<p><b>2.2</b> <b>Scholarship</b> from the <b>Greek State’s Scholarship Foundation (IKY)</b> for carrying out Ph.D. thesis by the title: “<i>The Employment of Geomorphology, Satellite Remote Sensing and GIS in the Mapping and Modelling of the Archaeological Site Location</i>”.</p> <p><b>2.1</b> <b>Scholarship</b> from the <b>Greek State’s Scholarship Foundation (IKY)</b> for excellent performance in M.Sc. programme of School of Geology, Aristotle University of Thessaloniki.</p>

### 3. LANGUAGES

<b>Greek</b>	Mother tongue
<b>English</b>	Proficiency in English

### 4. TEACHING EXPERIENCE

<b>2013</b>	<p><b>4.12</b> Contracted Lecturer at the Department of Civil Engineering and Geomatics of Cyprus University of Technology for teaching the undergraduate course: “<i>Radiometry and Microwave Remote Sensing</i>” (Winter semester 2013).</p> <p><b>4.11</b> Contracted Lecturer at the Department of Civil Engineering and Geomatics of Cyprus University of Technology for teaching the undergraduate course: “<i>Principles of Geomatics and Geographical Information Systems</i>” (Summer semester 2013).</p> <p><b>4.10</b> Contracted Lecturer at the Department of Civil Engineering and Geomatics of Cyprus University of Technology for co-teaching the undergraduate course: “<i>Summer Internships at special Geoinformatic Projects</i>” (Summer semester 2013).</p>
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2012	<p>4.9 Contracted Lecturer at the Department of Civil Engineering and Geomatics of Cyprus University of Technology for co-teaching the undergraduate course: <b>“Radiometry and Microwave Remote Sensing”</b> (Winter semester 2012).</p> <p>4.8 Contracted Lecturer at the Department of Civil Engineering and Geomatics of Cyprus University of Technology for teaching the undergraduate course: <b>“Principles of Geomatics and Geographical Information Systems”</b> (Summer semester 2012).</p> <p>4.7 Contracted Lecturer at the Department of Civil Engineering and Geomatics of Cyprus University of Technology for co-teaching the undergraduate course: <b>“Summer Internships at special Geoinformatic Projects”</b> (Summer semester 2012).</p>
2011	4.6 Teaching Assistant at the Department of Civil Engineering and Geoinformatics of Cyprus University of Technology.
2010	4.5 Contracted laboratory Lecturer at the School of Environmental Engineering of Technical University of Crete for teaching the undergraduate course: <b>“Geographical Information Systems”</b> (Summer semester 2010).
2005-2006	4.4 Academic supervisor of the E-learning program <b>“Geographical Information Systems”</b> - University of Athens and Technological Educational Institute (TEI) of Crete.
2007	4.3 Contracted Lecturer at the Department of Natural Resources and Environment of Technological Educational Institute of Crete for co-teaching the undergraduate course: <b>“Introduction to Geoinformatics”</b> .
2004-2010	4.2 Contracted Laboratory Lecturer at the Department of Natural Resources and Environment of the Technological Educational Institute of Crete for teaching the undergraduate courses: <b>“Remote Sensing and Image Analysis”</b> , <b>“Geographical Information Systems”</b> , <b>“Geology”</b> .
2003-2004	4.1 Contracted Laboratory Lecturer at School of Geology (Department of Physical and Environmental Geography) of Aristotle’s University of Thessaloniki for teaching the undergraduate courses: <b>“Photo interpretation (Remote Sensing) in the Geosciences”</b> , <b>“Digital Cartography and G.I.S.”</b> , <b>“Geography”</b> and <b>“Physical Geography”</b> .

## 5. INVITED LECTURES

2020	<p>3.21 Invited Lecturer to the undergraduate lesson <b>“Geographical Information Systems”</b> of School of Environmental Engineering, Technical University of Crete, Greece.</p> <p>3.20 Invited Lecturer to the postgraduate lesson <b>“Research Seminars”</b> of School of Environmental Engineering, Technical University of Crete, Greece.</p>
2019	<p>3.19 Invited lecturer to the undergraduate lesson <b>«Archaeology of Byzantine Landscape»</b>, History and Archaeology department, University of Crete, November 2019, Rethymno, Crete.</p> <p>3.18 Invited lecturer to the scientific congress <b>«Environmental challenges at 21<sup>st</sup> century»</b> (Organizers: Association of Administrative Judges, Harokopio University, Technical University of Crete, Chania Bar Association), 25-26 October 2019, Chania, Crete.</p> <p>3.17 Invited lecturer to the scientific meeting <b>“12 FORTH Scientific Retreat”</b> organised by Foundation for Research and Technology Hellas (FORTH), 15-16 October, Patra, Greece.</p>

	<p><b>5.16</b> Invited lecturer to the <b>"8<sup>th</sup> Environmental Journalism Summer School"</b>, Chania, Crete, Greece, 19-28 July, 2018.</p> <p><b>5.15</b> Invited Lecturer to the H2020-MSCA-RISE STABLE summer school meeting: <b>"Face on seismic risk assessment of heritage buildings with remote sensing"</b>, Frederick University, June 2019, Nicosia, Cyprus.</p> <p><b>5.14</b> Invited Lecturer to the undergraduate lesson <b>"Geographical Information Systems"</b> of School of Environmental Engineering, Technical University of Crete, Greece.</p>
<b>2018</b>	<p><b>5.13</b> <b>Keynote Speaker</b> at <b>"International Workshop on Climate Change and Soil Salinity Dynamics"</b>, Arabian Gulf University, Manama, Kingdom of Bahrain, 11-12 April 2018.</p> <p><b>5.12</b> <b>Invited speaker</b> in the meeting of scientific project: <b>"Connecteur-COST, The Hydrological and Erosional Cycles in Karstic Terrains"</b>, 14-17 March 2018, Omalos, Chania, Crete, Greece.</p> <p><b>5.11.</b> Convener of special session <b>"Assessment of climate hazards' impact on natural and cultural environment: Remote sensing and GIS applications"</b> in the frame of EGU - European Geosciences Union, General Assembly, Vienna, Austria, April 2018.</p>
<b>2017</b>	<p><b>5.10</b> Convener of special session <b>"Assessment of climate hazards' impact on natural and cultural environment: Remote sensing and GIS applications"</b> (<a href="http://meetingorganizer.copernicus.org/EGU2017/session/23593">http://meetingorganizer.copernicus.org/EGU2017/session/23593</a>) in the frame of EGU-European Geosciences Union, General Assembly, Vienna, Austria, April 2017.</p> <p><b>5.9</b> Invited Lecturer to the undergraduate lesson <b>"Geographical Information Systems"</b> of School of Environmental Engineering, Technical University of Crete, Greece.</p> <p><b>5.8</b> Invited Lecturer entitled to the postgraduate lesson <b>"Scientific Seminars"</b> of School of Environmental Engineering, Technical University of Crete, Greece.</p> <p><b>5.7</b> Invited Lecturer to the meeting <b>"Monitoring technologies and environmental protection: a multidisciplinary approach"</b> Technical University of Crete, Technical Chamber of Greece and Law Bar of Chania.</p>
<b>2016</b>	<p><b>5.6</b> Invited Lecturer to the undergraduate lesson <b>"Geographical Information Systems"</b> of School of Environmental Engineering, Technical University of Crete, Greece.</p>
<b>2014</b>	<p><b>5.5</b> Invited Tutor to the postgraduate course <b>"RESTECH (REmote Sensing Technologies in Cultural Heritage Workshop)"</b> organized by the Laboratory of Geophysical - Satellite Remote Sensing &amp; Archaeo-environment of the Institute for Mediterranean Studies (I.M.S.) / Foundation of Research &amp; Technology (F.O.R.T.H.)</p>
<b>2013</b>	<p><b>5.4</b> Lecturer at the research seminar <b>"GIS and Archaeology"</b> organized by the University of Cyprus in the framework of the research program "Narnia Marie Curie – ITN".</p>
<b>2012</b>	<p><b>5.3</b> Invited Tutor to the postgraduate course <b>"RESTAR (REmote Sensing Techniques in Archaeological Research – Basic Theory and Software Application)"</b> organized by the Laboratory of Geophysical - Satellite Remote Sensing &amp; Archaeo-environment of the Institute for Mediterranean Studies (IMS) / Foundation of Research &amp; Technology (FORTH).</p>

2011	5.2 Invited lecturer for the course <b>“Remote Sensing II”</b> at the Department of Civil Engineering and Geoinformatics of Cyprus University of Technology.
2006	5.1 Invited tutor for the seminars <b>“Satellite Remote Sensing”</b> in the framework of CRINNO EMERIC research program held by Institute for Mediterranean Studies (IMS)/Foundation of Research & Technology (FORTH).

## 6. PROFESSIONAL ACTIVITY

2021	6.42 ERASMUS+ 2020 call funded project: <b>Digital Educational Geoinformatic Methodologies for Monitoring Landscape (GEOLAND) (SCIENTIFIC COORDINATOR)</b> .
2020	6.41 FORTH –Synergy call funded project: <b>Advanced Spectro Bathymetric mapping of shallow seafloor using UAV imagery and deep learning techniques (ACTYS) (SCIENTIFIC COORDINATOR)</b> .  6.40 European Space Agency (ESA) Third Party missions: <b>High resolution satellite-derived bathymetry for submerged archaeological site exploration and documentation using advanced terrain classification techniques</b> .  6.39 Greek State Scholarship Foundation (IKY) funded project: <b>DEtection and aTtribution of agricultural droughts to Anthropogenic Climate Change (DETACC) (SCIENTIFIC COORDINATOR)</b> .
2019	6.38 EU funded research program H2020-MSCA-RISE: <b>Remote Sensing Techniques for Archaeology (RESEARCH)</b> .  6.37 EU funded research program H2020-MSCA-RISE: <b>Structural stability risk assessment (STABLE)</b> .  6.36 EU funded research program (LIFE17 CCM/GR/000087): <b>Innovative technologies for climate change mitigation by Mediterranean agricultural sector (LIFE ClimaMED)</b> .
2018	6.35 Elected as Assistant Researcher (Researcher Grade C') at Foundation for Research and Technology Hellas (FORTH), Institute for Mediterranean Studies, July 2018-today.  6.34 Funding of post-doctoral research from <b>Hellenic Foundation for Research and Technology</b> . Title of the project: <b>5DARE, Development of an integrated 5 Dimensional space based methodology for Assessing and modeling the Response of Erosion dynamics to land use and climatic changes in Mediterranean watersheds, (SCIENTIFIC COORDINATOR)</b> .
August 2016- today	6.33 Associate researcher of Geoinformatics at Technical University of Crete (School of Environmental Engineering / Water Resources Management and Coastal Engineering Laboratory) for the scientific support of the inquiring program: <b>“SOILCARE – Soilcare for profitable and sustainable crop production in Europe”</b> .
October 2015 – July 2016	6.32 Associate researcher of Geoinformatics at Technical University of Crete (School of Environmental Engineering / Water Resources Management and Coastal Engineering Laboratory) for the scientific support of the inquiring program: <b>“RECARE – Preventing and remediating soil degradation in Europe through land care”</b> .
August 2014– September 2015	6.31 Associate researcher of Geoinformatics at Technical University of Crete (School of Environmental Engineering / Water Resources Management and Coastal Engineering Laboratory) for the scientific support of the inquiring program: <b>“ARISTEIA II Remote Sensing Meteorological Data Fusion for effective flood mitigation and forecasting over Eastern Mediterranean”</b> .



2013 - July 2014	<p><b>6.30</b> Associate researcher of Geoinformatics at the Institute for Mediterranean Studies and Technological Educational Institute of Crete for the scientific support of the inquiring program: <b><i>“GEODIAMETRIS-Integrated geoinformatics technologies for time-lapse monitoring of land pollution from the disposal of olive-oil mills wastes. (THALES - General Secretary for Research (Greece)”</i></b>.</p> <p><b>6.29</b> <b>MAIN RESEARCHER</b> of the inquiring program: <b><i>“ISPRS Call for proposal: Free FORMOSAT Satellite imagery” (Research)</i></b>, NCPO and Chinese (Taipei) Society of Photogrammetry and Remote Sensing Research (CSPRS).</p> <p><b>6.28</b> <b><i>Soil resistance and Magnetic Survey project</i></b> at Delphi, Greece (Institute of Mediterranean Studies/FORTH – French Archaeological School).</p> <p><b>6.27</b> <b><i>Soil resistance and Magnetic Survey</i></b> project at Aliartos, Thivai, Greece (Institute of Mediterranean Studies/FORTH).</p> <p><b>6.26</b> Associate Researcher at the Department of Civil Engineering and Geoinformatics of Cyprus University of Technology in the frame of the <b><i>“Development of 28 Agri-Environmental Indicators for the assessment of the impacts of agriculture on the environment in Cyprus”</i></b>. Ministry of Agriculture, Natural Resources and the Environment, Cyprus.</p> <p><b>6.25</b> Associate Researcher in the frame of <b><i>“Monitoring 11 flora species according to the directive 92/43/EU for the preparation of the 6th report.”</i></b> Ministry of Agriculture, Natural Resources and the Environment, Cyprus.</p> <p><b>6.24</b> Associate researcher of Geoinformatics at the Department of Civil Engineering and Geoinformatics of Cyprus University of Technology for the scientific support of the inquiring program: <b><i>“Dragon 3. Detection Of Land use Change And Its Relationship To Water Quality Features And Potential Fishing Grounds By Using Multi-Source And Multi-Scale Remote Sensing Imageries”</i></b>, ESA (European Space Agency).</p>
2012	<p><b>6.23</b> Associate researcher of Geoinformatics at the Department of Civil Engineering and Geoinformatics of Cyprus University of Technology in the frame of the Cyprus Promotion Research Foundation funded scientific program: <b><i>“Managing Cultural Heritage Sites through Space and ground Technologies using Geographical Information Systems: A Pilot application at the archaeological sites of Paphos AEIΦOPIA / KOIAΦ / 0311 (BIE) / 06”</i></b>.</p> <p><b>6.22</b> Associate researcher of Geoinformatics at the Department of Civil Engineering and Geoinformatics of Cyprus University of Technology for the scientific support of the European Funded Scientific Program: <b><i>“Catastrophic shifts in drylands: how can we prevent ecosystem degradation? ‘CASCADE’ FPT-ENV-2011”</i></b>.</p> <p><b>6.21</b> Associate researcher of Geoinformatics at the Department of Civil Engineering and Geoinformatics of Cyprus University of Technology in the frame of the Cyprus Promotion Research Foundation funded scientific program: <b><i>“Integrated use of space, geophysical, and hyperspectral technologies intended for monitoring water leakages in water supply networks in Cyprus AEIΦOPIA/ΦΥΣΗ/0311(BIE)/21, WaterLeaks”</i></b>.</p>

	<p><b>6.20</b> Associate researcher of Geoinformatics at the Department of Civil Engineering and Geoinformatics of Cyprus University of Technology in the frame of the Cyprus Promotion Research Foundation funded scientific program: <b><i>“Development of a low altitude airborne remote sensing system for the processing of satellite data for archaeological reasons. (ΠΡΟΣΕΛΚΥΣΗ/ΕΜΠΕΙΡΟΣ/0311/08)”</i></b>.</p> <p><b>6.19</b> Associate researcher at the Department of Civil Engineering and Geoinformatics of Cyprus University of Technology for the scientific support of the inquiring program: <b><i>“Geotechnical Engineering”</i></b>.</p>
2011	<p><b>6.18</b> Associate researcher of Geoinformatics at the Department of Civil Engineering and Geoinformatics of Cyprus University of Technology in the frame of the Cyprus Promotion Research Foundation funded scientific program: <b><i>“Monitoring air pollution in Cyprus using satellite remote sensing and GIS and micro-sensor technology”</i></b>.</p> <p><b>6.17</b> Associate researcher of Geoinformatics at the Department of Civil Engineering and Geoinformatics of Cyprus University of Technology for the scientific support of the inquiring program: <b><i>“INTEGRATION – Integration of satellite remote sensing, GIS modelling and wireless-sensor network for monitoring and determining irrigation demands in Cyprus”</i></b>.</p>
2010- 2014	<p><b>6.16</b> Postdoctoral Researcher (<b>MAIN RESEARCHER</b>) at the Department of Civil Engineering and Geoinformatics of Cyprus University of Technology in the frame of the scientific project: <b><i>“SATFLOOD -Integrated use of satellite remote sensing and hydraulic modelling for the flood risk assessment at a catchment scale in Cyprus. (ΠΡΟΣΕΛΚΥΣΗ / ΝΕΟΣ/0609)”</i></b>.</p>
2008-2009	<p><b>6.15</b> Associate researcher of Geoinformatics at the Department of Natural Resources and Environment of Technological Educational Institute of Crete (TEI) for the scientific support of the inquiring program: <b><i>“Bachelor Degree Program –ENVIRONMENT ΕΡΕΑΕΚ ΙΙ”</i></b>.</p>
2008	<p><b>6.14</b> Associate researcher of Geoinformatics at the Department of Natural Resources and Environment of Technological Educational Institute of Crete (TEI) for the scientific support of the inquiring program: <b><i>“Integrated system of monitoring and management seismic hazard at the front of Greek arch. Applications at the cities of Chania and Heraklion. ΤΑΛΩΣ – ΚΡ_7”</i></b>.</p> <p><b>6.13</b> Associate researcher of Geoinformatics at the Department of Natural Resources and Environment of Technological Educational Institute of Crete (TEI) for the scientific support of the inquiring program: <b><i>“Reformation of curriculum of the Department of Natural Resources and Environment of the Technological Educational Institute of Crete. ΕΡΕΑΕΚ ΙΙ, Protection of Environment and environmental education”</i></b>.</p>
2007	<p><b>6.12</b> Associate researcher of Geoinformatics at the Center of Technological Research of Crete for the scientific support of the inquiring program: <b><i>“SE RISK, Advanced techniques for Seismic Risk reduction in Mediterranean Archipelago Regions, INTERREG ΙΙΙ, Β ΑΡΧΙΜΕΔ”</i></b>.</p>
2007-2008	<p><b>6.11</b> Associate researcher of Geoinformatics at the Center of Technological Research of Crete for the scientific support of the inquiring program: <b><i>“Mildmap – Media, Methodology Integration of EO techniques as operative tool for land degradation management and planning in Mediterranean areas, INTERREG ΙΙΙ, Β ΑΡΧΙΜΕΔ”</i></b>.</p>
2005- 2009	<p><b>6.10</b> <b>MAIN RESEARCHER</b> at the scientific project: <b><i>“Re-evaluation of the Dynamics of the Thessalian Neolithic Period: Habitation Patterns and Resource Management”</i></b>. INSTAP Institute of Aegean Prehistory, Institute for Mediterranean Studies (Foundation for Research and Technology Hellas).</p>

	<b>6.9 MAIN RESEARCHER</b> at PENED 03' scientific program: <i>"The employment of multispectral satellite images, radar images and Geographical Information Systems to the mapping of archaeological sites founded by the General Secretary for Research (Greece)"</i> . Aristotle University of Thessaloniki, Institute for Mediterranean Studies (Foundation for Research and Technology Hellas, FORTH).
<b>2005-2006</b>	<b>6.8 Associate Researcher</b> for the support of the project: <i>"e-learning Geographical Information Systems"</i> – University of Athens and Technological Educational Institute of Crete.
<b>2005</b>	<b>6.7</b> Soil resistance and Magnetic Survey project at Mt Lykaion, (Institute of Mediterranean Studies– University of Arizona). <b>6.6</b> Soil resistance and Magnetic Survey project at Sikyon Kiato (Institute of Mediterranean Studies– University of Volos). <b>6.5</b> Soil resistance and Magnetic Survey project at Leukanti, Evoia (Institute of Mediterranean Studies – British Archaeological School).
<b>2004-2005</b>	<b>6.4</b> Associate Researcher of Geoinformatics at the Department of Natural Resources and Environment of Technological Educational Institute of Crete (TEI) for the scientific support of inquiring programme <i>"Reformation of curriculum of the Department of Natural Resources and Environment of the Technological Educational Institute of Crete"</i> .
<b>2004</b>	<b>6.3</b> Contract with the Committee of Researches of Aristotle's University of Thessaloniki for the scientific support of inquiring program: <i>"e-ecoRisk–A Regional Enterprise Network Decision-Support System for Environmental Risk and Disaster Management of Large-Scale Industrial spills"-Regional operational network system of support and decision-making for the confrontation of environmental venturousness and the management of destructions from big scale industrial waste. EVG1-2001-00087"</i> .
<b>2002</b>	<b>6.2</b> Member of the organizing Committee of the 6th International Conference of Greek Geographical Society, Thessaloniki, 3-6/10/2002, Aristotle University, School of Geology.
<b>1999</b>	<b>6.1</b> Student training at Greek Geological Institute (IGME).

## 7. PAPERS IN PEER REVIEW JOURNALS

[26/03/2021, SCOPUS h-index=19, GOOGLE SCHOLAR h-index=22, 1756 citations\)](https://www.scopus.com/authid/detail.uri?authorId=55901750800)

<https://www.scopus.com/authid/detail.uri?authorId=55901750800>

<https://scholar.google.gr/citations?user=a9kjin2MAAAAJ&hl=en>

[https://www.researchgate.net/profile/Dimitrios\\_Alexakis](https://www.researchgate.net/profile/Dimitrios_Alexakis)

<b>2021</b>	<b>7.44</b> Polykretis, C., Alexakis, D.D., (2021). Spatial stratified heterogeneity of fertility and its association with socio-economic determinants using Geographical Detector: The case study of Crete Island Greece, <i>Applied Geography</i> , 127, 102384. <a href="https://doi.org/10.1016/j.apgeog.2020.102384">https://doi.org/10.1016/j.apgeog.2020.102384</a> .
<b>2020</b>	<b>7.43.</b> Grillakis, M.G., Polykretis, C., Manoudakis, S. Seiradakis, K., Alexakis, D.D., (2020). A Quantile Mapping Method to Fill in Discontinued Daily Precipitation Time Series, <i>Water</i> , 12(8), 2304, <a href="https://doi.org/10.3390/w12082304">https://doi.org/10.3390/w12082304</a> . <b>7.42.</b> Polykretis, C., Alexakis, D.D., Grillakis, M., Manoudakis, S., (2020). Assessment of Intra-Annual and Inter-Annual Variabilities of Soil Erosion in Crete Island (Greece) by Incorporating the Dynamic

	<p>"Nature" of R and C-Factors in RUSLE Modeling, <i>Remote Sensing</i>, 12(15), 2439, <a href="https://doi.org/10.3390/rs12152439">https://doi.org/10.3390/rs12152439</a>.</p> <p><b>7.41</b> Grillakis, M.G., Polykretis, C., <b>Alexakis, D.D.</b>, (2020). Past and projected climate change impacts on rainfall erosivity: Advancing our knowledge for the eastern Mediterranean island of Crete, <i>CATENA</i>, 193. <a href="https://doi.org/10.1016/j.catena.2020.104625">https://doi.org/10.1016/j.catena.2020.104625</a></p> <p><b>7.40</b> Polykretis, C., Grillakis, M.G., <b>Alexakis, D. D.</b>, (2020). Exploring the impact of various spectral indices on land cover change detection using change vector analysis: A case study of Crete Island, Greece, <i>Remote Sensing</i>, 12(2), <a href="https://doi.org/10.3390/rs12020319">https://doi.org/10.3390/rs12020319</a>.</p>
2019	<p><b>7.39</b> Agapiou, A., <b>Alexakis, D.D.</b>, Hadjimitsis, D., (2019). Potential of virtual constellations in archaeological research, <i>Sensors</i> 19(19), <a href="https://doi.org/10.3390/s19194066">https://doi.org/10.3390/s19194066</a>.</p> <p><b>7.38</b> <b>Alexakis, D.D.</b>, Tapoglou, E., Vozinaki, A.E.K., Tsanis, I.K., (2019) Integrated Use of Satellite Remote Sensing, Artificial Neural Networks, Field Spectroscopy, and GIS in Estimating Crucial Soil Parameters in Terms of Soil Erosion, <i>Remote Sensing</i>, <a href="https://doi.org/10.3390/rs11091106">https://doi.org/10.3390/rs11091106</a>.</p>
2018	<p><b>7.37</b> <b>Alexakis, D.D.</b>, Stavroulaki, E., Tsanis, I.K., (2018). Using Sentinel-1A interferometry and auxiliary Earth Observation data for monitoring water level changes in two lakes in Crete, Greece, <i>Geocarto International</i>, <a href="https://doi.org/10.1080/10106049.2018.1434685">https://doi.org/10.1080/10106049.2018.1434685</a>.</p> <p><b>7.36</b> <b>Alexakis, D.D.</b>, Daliakopoulos, I.N., Panagea, I.S., Tsanis, I.K. (2018). Assessing Soil Salinity with the use of WorldView-2 Multispectral Images in Timpaki, Crete, Greece, <i>Geocarto International</i>, 33(4), pp.1-18, doi: 10.1080/10106049.2016.1250826.</p>
2017	<p><b>7.35</b> <b>Alexakis, D.D.</b>, Mexis, P.D., Vozinaki, A.E.K., Daliakopoulos, I.N., Tsanis, I.K., (2017). Retrieval of Soil Moisture content using Sentinel-1 and auxiliary remote sensing products. A hydrological approach, <i>Sensors</i>, 17(6), 1455; doi: 10.3390/s17061455.</p>
2016	<p><b>7.34</b> Vozinaki A.-E. K., Morianou G.G., <b>Alexakis D.D.</b> and Tsanis I.K., (2016). Comparing 1D and combined 1D-2D hydraulic simulations using high resolution topographic data, the case study of the Koiliaris basin, Greece, <i>Hydrological Sciences Journal</i>, 62(4), pp. 642-656.</p> <p><b>7.33</b> Flocas, H., Tsanis, I.K., Katavoutas, G., Kouroutzoglou, J., Iordanidou, V., <b>Alexakis, D.D.</b>, (2016). Climatological aspects of cyclonic tracks associated with flood events in Crete, Greece, <i>Theoretical and Applied Climatology</i>, pp. 1-12, doi:10.1007/s00704-016-1946-z.</p> <p><b>7.32</b> <b>Alexakis, D.D.</b>, Tsanis, I.K., (2016). Comparison of multiple linear regression and artificial neural network models for downscaling TRMM precipitation products using MODIS data, <i>Environmental Earth Sciences</i>, 75: 1077, doi: 10.1007/s12665-016-5883-z.</p> <p><b>7.31</b> Agapiou, A., <b>Alexakis, D.D.</b>, Sarris, A., Hadjimitsis, D.G., (2016). Colour to Greyscale Pixels: Re-seeing Greyscale Archived Aerial Photographs and Declassified Satellite CORONA Images Based on Image Fusion Techniques, <i>Archaeological Prospection</i>, 23(4), pp.231-241.</p> <p><b>7.30</b> Agapiou, A., <b>Alexakis D.D.</b>, Sarris, A., Hadjimitsis, D., (2014). Water leakage detection using remote sensing, field spectroscopy and GIS in semiarid areas of Cyprus, <i>Urban Water Journal</i>, 13(3), pp. 221-231, doi: 10.1080/1573062X.2014.975726.</p> <p><b>7.29</b> <b>Alexakis, D.D.</b>, Sarris, A., Kalaitzidis, C., Papadopoulos, N., Soupios, P., (2016). Integrated use of satellite remote sensing, GIS and ground spectroscopy techniques for monitoring olive oil mill waste</p>

	disposal areas on the island of Crete, Greece, <i>International Journal of Remote Sensing</i> , 37(3), pp. 669-693, doi: 10.1080/01431161.2015.1136444.
<b>2015</b>	<p><b>7.28</b> Agapiou, A., <b>Alexakis, D.D.</b>, Sarris, A., Hadjimitsis, D.G., Linear 3-D transformations of Landsat 5 TM satellite images for the enhancement of archaeological signatures during the phenological cycle of crops, <i>International Journal of Remote Sensing</i>, 36(1), pp. 20-35, <a href="http://dx.doi.org/10.1080/01431161.2014.990646">http://dx.doi.org/10.1080/01431161.2014.990646</a>.</p> <p><b>7.27</b> Agapiou, A., Lysandrou, V., <b>Alexakis, D.D.</b>, Themistokleous, K., Cuca, B., Sarris, A., Hadjimitsis, D.G., (2015). Cultural heritage management and monitoring using remote sensing data and GIS: The case study of Paphos area, Cyprus, <i>Computers, Environment and Urban Systems</i>, 54, pp. 230-239, doi: 10.1016/j.compenvurbsys.2015.09.003.</p> <p><b>7.26</b> Athos Agapiou, <b>Dimitrios D. Alexakis</b>, Vasiliki Lysandrou, Apostolos Sarris, Branka Cuca, Kyriacos Themistocleous, Diofantos G. Hadjimitsis, (2015). Impact of urban sprawl to cultural heritage monuments: The case study of Paphos area in Cyprus, <i>Journal of Cultural Heritage</i>, pp. 671-680, doi:10.1016/j.culher.2014.12.006.</p>
<b>2014</b>	<p><b>7.25 Alexakis, D. D.</b>, Gryllakis, M. G., Koutroulis, A. G., Agapiou, A., Themistocleous, K., Tsanis, I. K., Michaelides, S., Pashiardis, S., Demetriou, C., Aristeidou, K., Retalis, A., Tymvios, F., and Hadjimitsis, D. G., (2014). GIS and remote sensing techniques for the assessment of land use changes impact on flood hydrology: the case study of Yialias Basin in Cyprus, <i>Nat. Hazards Earth Syst. Sci.</i>, 14, pp. 413-426.</p> <p><b>7.24</b> Agapiou, A., <b>Alexakis D.D.</b>, Sarris, A., Hadjimitsis, D., (2014). Evaluating the Potentials of Sentinel-2 for Archaeological Perspective, <i>Remote Sensing</i>, 6, pp. 2176-2194, doi: 10.3390/rs6032176.</p> <p><b>7.23 Alexakis D.D.</b>, Agapiou A., Tzouvaras M., Neocleous, K., Michaelides, S., Themistocleous, K., Hadjimitsis, D.G., (2014). Integrated use of Remote Sensing and GIS for monitoring Landslides in transportation pavements: risk assessment study of Paphos area in Cyprus, <i>Natural Hazards</i>, 72, pp. 119-141, doi: 10.1007/s11069-013-0770-3.</p>
<b>2013</b>	<p><b>7.22 Alexakis, D.D.</b>, Hadjimitsis, D.G. Agapiou, A., (2013). Integrated use of Remote Sensing, GIS and Precipitation Data for the Assessment of Soil Erosion Rate in the Catchment Area of "Yialias" in Cyprus, <i>Atmospheric Research</i>, 131, pp. 108-124.</p> <p><b>7.21</b> Agapiou, A., Hadjimitsis, D.G., Sarris, A., Georgopoulos, A., <b>Alexakis, D.D.</b>, (2013). Optimum temporal and spectral window for monitoring crop marks over archaeological remains in the Mediterranean region, <i>Journal of Archaeological Science</i>, 40(3), pp.1479-1492.</p> <p><b>7.20</b> Hadjimitsis D.G., Agapiou, A., <b>Alexakis, D.D.</b>, Sarris A., (2013). Exploring natural and anthropogenic risk for cultural heritage in Cyprus using remote sensing and GIS, <i>International Journal of Digital Earth</i>, 6(2), pp. 115-142, doi:10.1080/17538947.2011.602119.</p> <p><b>7.19</b> Agapiou A., Hadjimitsis, D., <b>Alexakis, D.D.</b>, (2013). Development of an image-based method for the detection of archaeological buried relics using multi-temporal satellite imagery, <i>International Journal of Remote Sensing</i>, 34(16), pp. 5979-5996, doi:10.1080/01431161.2013.803630.</p> <p><b>7.18 Alexakis, D.D.</b> and Sarris, A. (2013). Integrated GIS and Remote Sensing analysis for landfill sitting in Western Crete – Greece, <i>Environmental Earth Sciences</i>, 72(2), pp. 1-16, doi: 10.1007/s12665-013-2966-y.</p>

2012	<p><b>7.17 Alexakis D.</b>, Agapiou A., Hadjimitsis D. G., Retalis A., (2012). Optimizing statistical classification accuracy of satellite remotely sensed imagery for supporting fast flood hydrological analysis, <i>Acta Geophysica</i>, 60(3), pp. 959 – 984. <a href="https://doi.org/10.2478/s11600-012-0025-9">https://doi.org/10.2478/s11600-012-0025-9</a>.</p> <p><b>7.16 Alexakis, D.D.</b>, Hadjimitsis, D.G., Agapiou, A., Themistocleous, K., Retalis, A., (2012). Monitoring urban land cover using satellite remote sensing techniques and field spectroradiometric measurements: the case study of Yialias catchment area in Cyprus, <i>Journal of Applied Remote Sensing</i> 6(1), 063603. doi:10.1117/1.JRS.6.063603.</p> <p><b>7.15</b> Agapiou, A., Hadjimitsis, D.G., <b>Alexakis, D.D.</b>, (2012). Evaluation of broadband and narrowband vegetation indices for the identification of archaeological crop marks, <i>Remote Sensing</i>, 4 (12), pp. 3892-3919. <a href="https://doi.org/10.3390/rs4123892">https://doi.org/10.3390/rs4123892</a>.</p> <p><b>7.14</b> Agapiou, A., Hadjimitsis, D.G., <b>Alexakis, D.D.</b>, Papadavid, G., (2012). Examining the phenological cycle of barley (<i>hordeum vulgare</i>) using satellite and in situ spectroradiometer measurements for the detection of buried archaeological remains, <i>GIScience and Remote Sensing</i>, 49(6), pp. 854-872. <a href="https://doi.org/10.2747/1548-1603.49.6.854">https://doi.org/10.2747/1548-1603.49.6.854</a></p> <p><b>7.13</b> Agapiou, A., Hadjimitsis, D.G., <b>Alexakis, D.D.</b>, Sarris, A. (2012). Observatory validation of Neolithic tells ("Magoules") in the Thessalian plain, central Greece, using hyperspectral spectroradiometric data, <i>Journal of Archaeological Science</i>, 39 (5), pp. 1499-1512, 10.1016/j.jas.2012.01.001.</p> <p><b>7.12</b> Agapiou A., <b>Alexakis D.D.</b>, Hadjimitsis D.G., (2012). Spectral sensitivity of ALOS, ASTER, IKONOS, LANDSAT and SPOT satellite sensors intended for the detection of archaeological crop marks, <i>International Journal of Digital Earth</i>, doi:10.1080/17538947.2012.674159.</p> <p><b>7.11</b> Themistocleous K., Nisantzi A., Agapiou A., <b>Alexakis D.</b> Hadjimitsis D., Lysandrou V., Perdikou S., Retalis A., Chrysoulakis N. (2012). Long term monitoring of air pollution on monuments and cultural heritage sites in Cyprus using satellite remote sensing, <i>International Journal of heritage in the digital Era</i>, 1 (1), pp. 145-167. <a href="https://doi.org/10.1260/2047-4970.1.1.145">https://doi.org/10.1260/2047-4970.1.1.145</a>.</p> <p><b>7.10</b> Athos Agapiou, Diofantos G. Hadjimitsis, Andreas Georgopoulos, Apostolos Sarris, <b>Dimitrios D. Alexakis</b>, (2012). Towards an Archaeological Index: Identification of the spectral regions of stress vegetation to buried archaeological remains, <i>Lecture Notes in Computer Sciences (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)</i>, 7616 LNCS, pp.129 -138. <a href="https://doi.org/10.1007/978-3-642-34234-9_13">https://doi.org/10.1007/978-3-642-34234-9_13</a></p> <p><b>7.9</b> Kyriakos Themistocleous, Diofantos G. Hadjimitsis, Andreas Georgopoulos, Athos Agapiou, <b>Dimitrios D. Alexakis</b>. (2012). Development of a low altitude airborne imaging system for supporting remote sensing and Photogrammetric Applications in Cyprus, <i>Lecture Notes in Computer Sciences (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)</i>, 7616 LNCS, pp. 494 – 504. <a href="https://doi.org/10.1007/978-3-642-34234-9_51">https://doi.org/10.1007/978-3-642-34234-9_51</a>.</p>
2011	<p><b>7.8 Dimitrios Alexakis</b>, Apostolos Sarris, Astaras Theodoros, Albanakis Konstantinos, (2011). Integrated GIS, Remote Sensing and Geomorphologic Approaches for the Reconstruction of the Landscape Habitation of Thessaly during the Neolithic Period, <i>Journal of Archaeological Science</i>, 36(1), doi:10.1016/j.jas.2010.08.013.</p> <p><b>7.7</b> Hadjimitsis, D.G., Agapiou, A., <b>Alexakis, D.</b>, Sarris A., (2011). Exploring natural and anthropogenic risk for cultural heritage in Cyprus using remote sensing and GIS, <i>International Journal of Digital Earth</i>, pp. 115-142, doi:10.1080/17538947.2011.602119.</p>



	<b>7.6</b> Agapiou A., Hadjimitsis D.G., Papoutsas C., <b>Alexakis D.D.</b> , Papadavid G., (2011). The Importance of Accounting for Atmospheric Effects in the Application of NDVI and Interpretation of Satellite Imagery Supporting Archaeological Research: The Case Studies of Palaepaphos and Nea Paphos Sites in Cyprus. <i>Remote Sensing</i> . 3(12), pp. 2605-2629. <a href="https://doi.org/10.3390/rs3122605">https://doi.org/10.3390/rs3122605</a> .
<b>2010</b>	<b>7.5 Alexakis, D.</b> , Sarris, A. (2010). Environmental and human risk assessment of the prehistoric and historic archaeological sites of Western Crete (Greece) with the use of GIS, remote sensing, fuzzy logic and neural networks, <i>Lecture Notes in Computer Sciences (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)</i> 6436 LNCS, pp. 332 -342. <a href="https://doi.org/10.1007/978-3-642-16873-4_25">https://doi.org/10.1007/978-3-642-16873-4_25</a> .
<b>2009</b>	<b>7.4 Dimitris Alexakis</b> , Apostolos Sarris, Astaras Theodoros, Albanakis Konstantinos (2009). Detection of Neolithic Settlements in Thessaly, Greece through Multispectral and Hyperspectral Satellite Imagery, <i>Sensors</i> , 9(2), pp.1167-1187. doi: 10.3390/s90201167.  <b>7.3 Alexakis, D.</b> , Sarris, A., Astaras, Th., Oikonomidis, D., (2008). Geomorphologic and Satellite Imagery Approaches for the Reconstruction of Neolithic Thessaly landscape, <i>Bulletin of Greek Geological Society</i> , Volume XLII/II, p.p. 23-32.
<b>2007</b>	<b>7.2</b> Kouli M., Soupios P., <b>Alexakis D.</b> , Vallianatos F., (2007). GIS-based morphometric analysis of Keritis and Tauronitis drainage networks, Western Crete, Greece, <i>Journal of Environmental Hydrology</i> , 15, pp. 1-17.
<b>2006</b>	<b>7.1</b> Kouli M., Vallianatos F., Soupios P., <b>Alexakis D.</b> , (2006). A GIS example of Morphometric analysis in tectonic structures of Western Crete, Greece, <i>WSEAS Transactions on ENVIRONMENT and DEVELOPMENT</i> , 9(2), ISSN 1790-5079, pp. 1163-1168.

## 8. CHAPTERS IN BOOKS

<b>2020</b>	<b>8.6.</b> Satellite Remote Sensing and monitoring of physical environment. Potential and perspectives in the field of public administration and justice / Δορυφορική Τηλεπισκόπηση και Παρακολούθηση του φυσικού περιβάλλοντος. Δυνατότητες και προοπτικές στους τομείς της Διοίκησης και της Δικαιοσύνης (in Greek) by <b>Alexakis Dimitris</b> (2020). In the book: Environmental Challenges in the 21 <sup>st</sup> century (in English) / Περιβαλλοντικές προκλήσεις στον 21 <sup>ο</sup> αιώνα (in Greek). Edited by: George Ballias and Eupraxia –Aithra Maria, Sakkoulas publications, ISBN 978-960-648-197-0.
<b>2015</b>	<b>8.5</b> Agapiou A., <b>Alexakis D. D.</b> , Sarris A., Hadjimitsis D. G. (2015). On the use of Satellite Remote Sensing in Archaeology, A. Sarris (Ed.), <i>Best Practices of Geoinformatic Technologies for the Mapping of Archaeolandscapes</i> , Archaeopress Archaeology, ISBN 978 1 7849.
<b>2014</b>	<b>8.4</b> Investigation of ground remote sensing techniques for supporting an early warning Water-Leakage System by Athos Agapiou, <b>Dimitrios D. Alexakis</b> , Kyriakos Themistocleous, Apostolos Sarris, Skevi Perdikou, Chris Clayton and Diofantos Hadjimitsis in the book <i>Integrated Use of Space, Geophysical and Hyperspectral Technologies Intended for Monitoring Water Leakages in Water Supply Networks</i> . Edited by Diofantos G. Hadjimitsis, Athos Agapiou and Kyriacos Themistocleous, ISBN 978-953-51-1729-2, 82 pages, Publisher: InTech, Chapters published November 05, 2014 under CC BY 3.0 license DOI: 10.5772/58836.
<b>2013</b>	<b>8.3</b> Integrated Remote Sensing and GIS Applications for Sustainable Watershed Management: A Case Study from Cyprus, by Diofantos G. Hadjimitsis, <b>Dimitrios D. Alexakis</b> , Athos Agapiou, Kyriacos Themistocleous, Silas Michaelides and Adrianos Retalis in the book <i>"Remote Sensing of Environment</i>

	<p>- <i>Integrated Approaches</i>" edited by Diofantos G. Hadjimitsis, ISBN 978-953-51-1152-8, InTech, July 7, 2013.</p> <p><b>8.2</b> Remote Sensing for Archaeological Applications: Management, Documentation and Monitoring, by Diofantos G. Hadjimitsis, Athos Agapiou, Kyriacos Themistocleous, <b>Dimitrios D. Alexakis</b> and Apostolos Sarris in the book "<i>Remote Sensing of Environment - Integrated Approaches</i>" edited by Diofantos G. Hadjimitsis, ISBN 978-953-51-1152-8, InTech, July 7, 2013.</p>
2012	<p><b>8.1 Dimitrios Alexakis</b>, Athos Agapiou, Diofantos Hadjimitsis and Apostolos Sarris, (2012). Chapter: Remote Sensing Applications in Archaeology, <i>Remote Sensing / Book 2</i> ISBN: 979-953-307-876-1, (ISBN 979-953-307-231-8), InTech Book edited by Boris Escalante.</p>

## 9. PAPERS IN CONFERENCE PROCEEDINGS

2019	<p><b>9.51 Alexakis D.D.</b>, Tampakopoulou, E., Grillakis, E., Tsanis, I.K., (2019). Using satellite remote sensing and regional climate change scenario data for projecting soil erosion risk. A case study in Crete, Greece. IGARSSS congress, Yokohama, Japan, July 2019.</p>
2018	<p><b>9.50</b> Stavroulaki E., <b>Alexakis, D.D.</b>, Tsanis, I.K., (2018). Use of Sentinel-1A imageries for Land use/Land cover monitoring in Crete, Greece. An InSAR approach, <i>38<sup>th</sup> EARSeL Symposium</i>, Chania, Crete, Greece, 09-12 July 2018.</p> <p><b>9.49 Alexakis, D.D.</b>, Daliakopoulos, I.N., Tsanis, I.K., (2018). Monitoring soil salinity with means of field spectroscopy and ancillary Earth Observation data. A case study in Crete, Greece. <i>International Workshop on Climate Change and Soil Salinity Dynamics</i>, Manama, Kingdom of Bahrain, 11-12 April 2018.</p>
2015	<p><b>9.48 Alexakis, D.D.</b>, Tsanis, I.K., (2015). Spatial downscaling of TRMM precipitation using satellite remote sensing data products, <i>EWRA 2015</i>, Istanbul, Turkey, 10-13 June 2015.</p> <p><b>9.47</b> Tsanis, I.K., Floca, H., <b>Alexakis, D.D.</b>, Vozinaki, A.E.K., Katavoutas, G., Iordanidou, V., Palogos, I., Giannakis, G., Panakoulia, S., Morianou, G., Pappa, P., Papadakis, V., (2015). Remote Sensing Meteorological Data Fusion for effective flood mitigation and forecasting over Mediterranean, <i>EWRA 2015</i>, Istanbul, Turkey, 10-13 June 2015.</p> <p><b>9.46 Alexakis, D.D.</b>, Sarris, A., Calaitzidis, Ch., Papadopoulos, N., Soupios, P., Argyriou, N., (2015). Detecting Olive Oil Mill waste disposal areas in Crete/Greece with the use of GIS and Remote Sensing, <i>ISRSE 36</i>, Berlin, Germany, 11-15 May 2015.</p>
2014	<p><b>9.45</b> Athos Agapiou, <b>Dimitrios Alexakis</b>, Francois–Xavier Simon, Tuna Kalayci, Jamieson Donati, Nikos Papadopoulos, Apostolos Sarris, Diofantos Hadjimitsis, (2014). Extraction of archaeological information using high-resolution Formosat-2 data, <i>EUROMED 2014</i>, Limassol, Cyprus, 3-8 November 2014.</p> <p><b>9.44 Alexakis, D.D.</b>, Sarris, A., Calaitzidis, Ch., Papadopoulos, N., Soupios, P., (2014). Development of automated satellite remote sensing and ground spectroscopy techniques for monitoring olive oil mill waste disposal areas in Crete-Greece, <i>EARSeL Symposium</i>, Warsaw, Poland, 16-20 June 2014.</p> <p><b>9.43</b> A. Agapiou, A. Sarris, N. Papadopoulos, <b>D. Alexakis</b>, D. Hadjimitsis, (2014). 3D pseudo GPR sections based on NDVI values: Fusion of optical and active remote sensing techniques at the VESZTO-MAGOR tell, Hungary, <i>CAA-GR</i>, Rethymno, Greece, Crete, 7-8 March 2014.</p>



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2013	<p><b>9.39</b> Athos Agapiou, Diofantos Hadjimitsis, <b>Dimitrios Alexakis</b>, Kuriakos Themistokleous, Branka Cuca (2013) Integrated method for tracking changes in archaeolandscapes using remote and-close range technologies, <i>International Congress of Digital Heritage</i>, Marseilles, France, 28 October-1<sup>st</sup> November 2013.</p> <p><b>9.38 Alexakis D. D.</b>, Koutroulis, A.G., Grillakis, M., Agapiou, A., Themistocleous, K., Tsanis, I., (2013). Using spatio-temporal Markov model for flood mapping: the case study of Yialias River in Cyprus, <i>SPIE Remote Sensing Conference</i>, Dresden, Germany, 22-26 September 2013.</p> <p><b>9.37 Alexakis D.D</b>, Agapiou, A, Themistocleous, K, Retalis A., Hadjimitsis D. G., (2013). Using ERS-2 and ALOS PALSAR images for soil moisture and inundation mapping in Cyprus", <i>in Proceedings of the First International Conference on Remote Sensing and Geoinformation of Environment - RSCy2013</i>, Paphos, Cyprus, 8-10 April 2013.</p> <p><b>9.36 Alexakis D.D</b>, Agapiou, A, Lysandrou, V., Sarris, A., Hadjimitsis D.G., (2013). Natural and human hazard assessment of the archaeological sites of Paphos area (Cyprus) with the use of Remote Sensing and GIS, <i>International Congress of the Geological Society of Greece</i>, Chania-Crete, Greece, 5-8 September 2013.</p> <p><b>9.35</b> Agapiou A., <b>Alexakis D.D.</b>, Stavrou M., Sarris, A., Themistokleous, K., Hadjimitsis, D., (2014). Prospects and limitations of vegetation indices in archaeological research. The Neolithic Thessaly case study, <i>Proc. SPIE 8893</i>, Earth Resources and Environmental Remote Sensing/GIS Applications IV, 88930D; doi:10.1117/12.2028661, Dresden, Germany, 24 October 2013.</p> <p><b>9.34</b> Agapiou, A., Themistokleous, K., <b>Alexakis, D.D.</b> Kourtis, N., Sarris, A., Perdikou, S., Clayton, C., Phinikaridou, H., Manoli, A., Hadjimitsis, D., (2013). Variations of spectral signature profiles of wet and dry targets for supporting the detection of water-leakages using satellite data. <i>Proc. SPIE 8887</i>, Remote Sensing for Agriculture, Ecosystems, and Hydrology XV, 88871L); doi:10.1117/12.2029289, Dresden, Germany, 16 October 2013.</p> <p><b>9.33</b> Agapiou, A., Toullos, L., Themistocleous, K., Perdikou, P., <b>Alexakis D.D.</b>, Sarris, A., Toullos, E., Foinikaridou, E., Manolis, A., Hadjimitsis D.G., (2013). Use of satellite derived vegetation indices for the detection of water pipeline leakages in semiarid areas', <i>in Proceedings of the First International Conference on Remote Sensing and Geoinformation of Environment - RSCy2013</i>, Paphos, Cyprus 8-10 April 2013.</p>

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2012	<p><b>9.31 Dimitrios D. Alexakis</b>, Diofantos G. Hadjimitsis, Athos Agapiou, Kyriakos Themistocleous, Adrianos Retalis, Silas Michaelides, Stelios Pashiardis, Filippos Tymvios (2012). Flood mapping of Yialias River catchment area in Cyprus using ALOS PALSAR radar images. In <i>Proceedings of SPIE, 8531, Remote Sensing for Agriculture, Ecosystems and Hydrology XIV</i>, 85310S; doi: 10.1117/12.974581, 19 October 2012.</p> <p><b>9.30 Alexakis D.D.</b>, Hadjimitsis D.G., Michaelides, S., Tsanis, I., Retalis, A., Demetriou C., Agapiou A., Themistocleous K., Pashiardis, S., Aristeidou K., Tymvios F., (2012). Application of GIS and Remote Sensing Techniques for Flood Risk Assessment in Cyprus, <i>COMECAP 2012 (International Conference on Meteorology, Climatology and Atmospheric Physics)</i>, Athens, Greece, 30 May–1 June 2012.</p> <p><b>9.29 Alexakis D.D</b>, Hadjimitsis D.G, Agapiou A., (2012). Estimating Flash Flood Discharge in a Catchment Area with a Hydraylic model and Terrestrial Laser Scanner, <i>COMECAP 2012 (International Conference on Meteorology, Climatology and Atmospheric Physics)</i>, Athens, Greece, 30 May–1 June 2012.</p> <p><b>9.28 Alexakis D. D.</b>, Hadjimitsis D.G., Agapiou A., Themistocleous K., (2012). Assessing soil erosion rate in a catchment area in Cyprus using remote Sensing and GIS, <i>32<sup>nd</sup> EARSEL (European Association of Remote Sensing Laboratories) Symposium</i>, Mykonos, Greece, 21-24 May 2012.</p> <p><b>9.27 Alexakis D. D.</b>, Hadjimitsis D.G., Agapiou A., Retalis A., (2012). Development of methodology for the optimization of classification accuracy of Landsat TM/ETM+ imagery in a catchment area in Cyprus, <i>32<sup>nd</sup> EARSEL (European Association of Remote Sensing Laboratories) Symposium</i>, Mykonos, Greece, 21-24 May 2012 .</p> <p><b>9.26</b> Athos Agapiou, Diofantos G. Hadjimitsis, Andreas Georgopoulos, Apostolos Sarris, <b>Dimitrios D. Alexakis</b> (2012). Towards an Archaeological Index: Identification of the spectral regions of stress vegetation to buried archaeological remains, <i>Euromed 2012</i>, pp. 129 -138, Limassol, Cyprus, 29 Oct-3 Nov, 2012.</p> <p><b>9.25</b> Kyriakos Themistocleous, Diofantos G. Hadjimitsis, Andreas Georgopoulos, Athos Agapiou, <b>Dimitrios D. Alexakis</b> (2012). Development of a low altitude airborne imaging system for supporting remote sensing and Photogrammetric Applications in Cyprus. <i>Euromed 2012</i>, pp. 494 – 504, Limassol, Cyprus, 29 Oct-3Nov, 2012.</p> <p><b>9.24</b> Italos, C., Hadjimitsis D.G., <b>Alexakis, D.D.</b>, Agapiou, A., Nisantzi, A., (2012). Integrated use of satellite remote sensing and GIS for the development of a sophisticated sustainability index for urban areas: a case study of Paphos city (Cyprus). <i>32<sup>nd</sup> EARSEL (European Association of Remote Sensing Laboratories) Symposium</i>, Mykonos, Greece, 21-24 May 2012.</p> <p><b>9.23</b> Agapiou A., Hadjimitsis D.G., Sarris A., Georgopoulos A., <b>Alexakis D. D.</b>, (2012). Linear spectral un-mixing for the detection of Neolithic settlements in the Thessalian plain, North Greece. <i>32<sup>nd</sup> EARSEL (European Association of Remote Sensing Laboratories) Symposium</i>, Mykonos, Greece, 21-24 May 2012.</p> <p><b>9.22</b> Agapiou A., Hadjimitsis D.G., Nisantzi A., <b>Alexakis D.D.</b>, Themistocleous K., Papadavid G., (2012). Variability of field spectroradiometric measurements using nearly Lambertian surfaces and auxiliary</p>

	Lidar observations, <i>32<sup>nd</sup> EARSEL (European Association of Remote Sensing Laboratories) Symposium</i> , Mykonos island, Greece, 21-24 May 2012.
<b>2011</b>	<p><b>9.21 Alexakis D.</b>, Hadjimitsis D.G, Agapiou A., Themistocleous K., Retalis A., (2011). The contribution of earth observation to flood risk assessment in Cyprus: the case study of Yialias catchment area in Nicosia, <i>VI EWRA International Symposium, Water Engineering and Management in a Changing Environment</i>, Catania, Italy, 29 Jun-2 July 2011.</p> <p><b>9.20 Dimitris Alexakis</b>, Diofantos Hadjimitsis, Athos Agapiou, Kyriacos Themistocleous, Adrianos Retalis (2011). Monitoring urban land cover with the use of satellite remote sensing techniques as a means of flood risk assessment in Cyprus, <i>SPIE Remote Sensing Conference</i>, Prague, Czech Republic, 19-22 September 2011.</p> <p><b>9.19</b> Hadjimitsis D.G, Papadavid G., Agapiou A., <b>Alexakis D.</b>, Papoutsas C., (2011). Water management using Geoinformatics and Remote Sensing Techniques. The Case study of Mandria, SW Cyprus. <i>VI EWRA International Symposium, Water Engineering and Management in a Changing Environment</i>, Catania, Italy, 29 June – 2 July, 2011.</p> <p><b>9.18</b> Themistocleous, K., Hadjimitsis, D., <b>Alexakis, D.</b>, (2011). Fast atmospheric correction algorithm based on the darkest pixel approach for retrieving the aerosol optical thickness: comparison with in-situ AOT measurements, <i>SPIE Remote Sensing Conference</i>, Prague, Czech Republic, 19-22 September 2011.</p> <p><b>9.17</b> Papoutsas, C., Hadjimitsis, D.G., and <b>Alexakis, D.D.</b>, (2011). Characterizing the Spectral Signatures and Optical Properties of Dams in Cyprus using Field Spectroradiometric Measurements", in Proceedings of SPIE 8174, in Remote Sensing for Agriculture, Ecosystems, and Hydrology XIII, 817419, <i>Prague, Czech Republic, Prague, 7 October 2011</i>.</p> <p><b>9.16</b> Christiana Papoutsas, Diofantos Hadjimitsis, <b>Dimitrios Alexakis</b>, (2011). <u>Coastal</u> water quality near to desalination project in Cyprus using Earth observation, <i>SPIE Remote Sensing Conference</i>, Prague, Czech Republic, 19-22 September 2011.</p> <p><b>9.15</b> Nisantzi Argyro, Hadjimitsis Diofantos, <b>Alexakis Dimitrios</b>, (2011). Estimating the relationship between aerosol optical thickness and PM10 using lidar and meteorological data in Limassol, Cyprus, <i>SPIE Remote Sensing Conference</i>, Prague, Czech Republic, 19-22 September 2011.</p> <p><b>9.14</b> Themistocleous, K., Hadjimitsis, D., Retalis, A., Chrysoulakis, N., <b>Alexakis, D.</b>, (2011). Determination of the aerosol optical thickness through the atmospheric path radiance component obtained from the application of the pseudo-invariant target atmospheric correction method, <i>31<sup>st</sup> Earsel Symposium and 35<sup>th</sup> General Assembly</i>, Prague, Czech Republic, 30 May 2011.</p>
<b>2010</b>	<p><b>9.13 Alexakis, D.</b>, Sarris, A., (2010). Environmental and Human Risk Assessment of the Prehistoric and Historic Archaeological Sites of Western Crete (Greece) with the Use of GIS, Remote Sensing, Fuzzy Logic and Neural Networks, <i>Euromed 2010 – Digital Heritage</i>, Lemesos, Cyprus, 8-13 November 2010.</p> <p><b>9.12 Alexakis, D.</b> &amp; Sarris A., (2010). Siting of Municipal Solid Waste Landfill in Western Crete with the use of Geographical Information Systems and Satellite Remote Sensing. <i>6th Panhellenic Congress of Greek Society of Geographical Information Systems</i>, Athens, Greece, 2010.</p>
<b>2008</b>	<b>9.11 Alexakis, D.</b> , Sarris, A., Th. Astaras, Albanakis, K. & Oikonomidis, D., (2008). Contribution of Satellite Imagery and DEMs to the Detection of Neolithic Settlements in Thessaly, Greece, <i>Proceedings of the 1<sup>st</sup></i>

	<p><i>International EARSeL Workshop on Advances on Remote Sensing for Archaeology and Cultural Heritage Management</i>, pp. 325-328, Rome, Italy, 2008.</p> <p><b>9.10 Alexakis, D.</b>, Sarris, A., Astaras, Th., Oikonomidis, D., (2008). Detection of Neolithic Settlements in Thessaly, Greece Through Multispectral and Hyperspectral Satellite Imagery. Submitted to CAA 2008, Computer Applications and Quantitive Methods in Archaeology, Budapest, Hungary, 4-6 April, 2008.</p> <p><b>9.9 D. Alexakis</b>, A. Sarris, Th. Astaras, K. Albanakis, (2008). GIS, Satellite imagery and Geomorphological methodologies for the geoarchaeological research of Neolithic Thessaly. <i>5<sup>th</sup> H.S.A. Symposium 2008</i>, Athens, Greece, 8-10 October 2008.</p>
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2006	<p><b>9.6 Kouli M.</b>, Vallianatos F., Soupios P., <b>Alexakis D.</b>, (2006). A GIS example of morphometric analysis in tectonic structures of Western Crete, Greece, <i>submitted to the 4<sup>th</sup> WSEAS International Conference on Environment, Ecosystems and Development (EED '06)</i>, Venice, Italy, November 20-22, 2006.</p>
2005	<p><b>9.5 Kouli M.</b>, <b>Alexakis D.</b>, Vallianatos F., Soupios, P., Sarris, A., Xepapadaki A., Zoumpoulouglou N., (2005). Integration of Geographic Information Systems in Technological Education; an example in the geoenvironmental sciences, <i>3rd WSEAS/IASME International Conference on Engineering Education (EE'05)</i>, pp.487-492, Vouliagmeni Athens, Greece, July 2005.</p> <p><b>9.4 Vallianatos, F.</b>, Makris, J. P., Soupios, P., Saltas, V., Papadopoulos, I., Hloupis, G., Kouli, M., <b>Alexakis, D.</b>, Kokkinou, E., Nikolintaga, I., Kalisperi, D., Moisidi, M., (2005). Coupling GeoEnvironmental Research &amp; Education: Examples from the Technological Educational Institute of Crete, <i>3rd WSEAS/IASME International Conference on Engineering Education (EE'05)</i>, pp.503-510, Vouliagmeni Athens, Greece, July 2005.</p> <p><b>9.3 Kouli M.</b>, <b>Alexakis D.</b>, Vallianatos F., Papakostas, T., (2005). Geoinformation Technology: An invaluable teaching tool for geomonitoring. An example from the new-established Laboratory of Geoinformation, Department of Natural Resources &amp; Environment, Technological Education Institute of Crete, <i>3rd WSEAS/IASME International Conference on Engineering Education (EE'05)</i>, Vouliagmeni Athens, Greece, July 2005.</p> <p><b>9.2 Kouli M.</b>, <b>Alexakis D.</b>, Vallianatos F., (2005). E-Learning project in GIS education, <i>3rd WSEAS/IASME International Conference on Engineering Education (EE'05)</i>, Vouliagmeni, Athens, Greece, July 2005.</p>
2004	<p><b>9.1 D. Alexakis</b>, Th. Astaras, D. Oikonomidis, (2004). Multi-temporal monitoring of the evolution of query in mountain Kamila and the broader areas with the use of remote sensing and GIS, <i>7<sup>o</sup> Congress of Greek Geographical Society</i>, pp. 446-454, Mytilene, Lesvos, Greece, 2004.</p>

## 10. EXTENDED ABSTRACTS IN CONFERENCE PROCEEDINGS

2021	<p><b>10.37</b> Alevizos, E., <b>Alexakis, D.D.</b> (2021). Leveraging unmanned surface vehicle depth data for predicting satellite-derived bathymetry on Worldview scenes with similar seafloor types., <i>SDB Day (Satellite Derived Bathymetry Technology and User Forum), 2021 Americas / Carribbean / Europe, 27<sup>th</sup> January</i> (virtual symposium).</p>
2020	<p><b>10.36</b> <b>Alexakis D.D.</b>, Polykretis C., Grillakis, M., Manoudakis, S., (2020). Impact of monthly changes of rainfall erosivity and cover management factors on soil loss estimation for Crete Island, Greece, <i>Water Efficiency and Climate Resilient Agriculture congress, Chania, Crete, Greece, 15-16 July, 2020.</i></p> <p><b>10.35</b> Grillakis, M.G, Koutroulis, A., Polykretis, C., <b>Alexakis, D.D.</b>, (2020). Estimating soil moisture at various depths from near surface ESA CCI Soil Moisture, <i>EGU2020: Sharing Geoscience Online, Vienna, Austria, 3-8 May 2020.</i></p> <p><b>10.34</b> Vozinaki, A.E.K., <b>Alexakis, D.D.</b>, Tsanis, I.K., (2020). Monitoring and estimating soil loss in agricultural areas – Case studies in Chania, Crete, Greece. <i>EGU2020: Sharing Geoscience Online, Vienna, Austria, 3-8 May 2020.</i></p> <p><b>10.33</b> Polykretis, C., Grillakis, M.G., <b>Alexakis, D.D.</b>, (2020). Land cover change detection in Crete Island, Greece, using different combinations of biophysical indices in change vector analysis. <i>EGU2020: Sharing Geoscience Online, Vienna, Austria, 3-8 May 2020.</i></p> <p><b>10.32</b> <b>Alexakis, D.D.</b>, Polykretis, C., Grillakis, M.G., (2020). Studying soil erosion rates through landscape fragmentation. A case study in Crete, Greece. <i>EGU2020: Sharing Geoscience Online, Vienna, Austria, 3–8 May 2020.</i></p> <p><b>10.31</b> Grillakis, M.G., Polykretis, C., <b>Alexakis, D.D.</b>, (2020). A method to fill-in discontinued daily precipitation series from nearby stations. A case study in Crete, Greece. <i>EGU2020: Sharing Geoscience Online, Vienna, Austria, 3–8 May 2020.</i></p> <p><b>10.30</b> Polykretis, C., Grillakis, M.G., <b>Alexakis, D.D.</b>, (2020). Land cover change detection in Crete Island, Greece, using, change vector <i>analysis. OpenEARTH, Thessaloniki, Greece, 12-14 February 2020.</i></p>
2019	<p><b>10.29</b> Polykretis, Ch., <b>Alexakis D.D.</b>, (2019). Studying land use and land cover spatial patterns distribution in Crete, Greece with means of satellite remote sensing, <i>TerraEnvision, Barcelona, Spain, 2-7 September 2019.</i></p> <p><b>10.28</b> Grillakis, M., <b>Alexakis, D.D.</b>, (2019). Comparison of different rainfall erosion estimation methods for the Island of Crete, <i>TerraEnvision, Barcelona, Spain, 2-7 September 2019.</i></p> <p><b>10.27</b> Alexakis D.D., Tapoglou, E., Vozinaki, A.E.K., Tsanis, I.K. (2019), Erosivity parameter estimation using Artificial Neural Networks and Satellite imageries, <i>EGU General Assembly, Vienna, Austria, 7–12 April 2019.</i></p>
2018	<p><b>10.26</b> <b>Alexakis, D.D.</b>, Tsanis, I.K., (2018). Using field spectroscopy and atmospheric correction methods for Land use/Land cover monitoring in Crete, Greece, <i>EGU General Assembly, EGU2018-10508, Vienna, Austria, 23–28 April 2018.</i></p>

	<p><b>10.25 Alexakis, D.D.,</b> Tsanis, I.K., (2018). Monitoring soil erosion with means of sediment fences and Earth observation in Crete, Greece, <i>EGU General Assembly</i>, EGU2018-10668, Vienna, Austria, 23–28 April 2018.</p> <p><b>10.24 Dimitrios D. Alexakis,</b> (2018). Filippou-Dimitrios K. Mexis, Anthi-Eirini K. Vozinaki, Ioannis N. Daliakopoulos, Ioannis K. Tsanis (2018). Estimating Soil Moisture Content with means of Earth Observation and Artificial Neural Network, <i>TerraEnvision</i>, Barcelona, Spain, 29 January-2 April 2018.</p>
2017	<p><b>10.23</b> Papathanasiou, K., <b>Alexakis, D.D.,</b> Tsanis, I.K., (2017). Monitoring flood inundation extent with means of Sentinel - 1 and Landsat 8 satellite images, <i>EGU General Assembly</i>, EGU2017-17475, Vienna, Austria, 23–28 April 2017.</p> <p><b>10.22</b> Stavroulaki, E., <b>Alexakis, D.D.,</b> Tsanis, I.K., (2017). Monitoring water level using Sentinel-1 Interferometric Synthetic Aperture Radar (InSAR) images, <i>EGU General Assembly</i>, <i>EGU2017-17521</i>, Vienna, Austria, 23–28 April 2017.</p>
2016	<p><b>10.21 Alexakis, D.D.,</b> Seiradakis, K.D, Tsanis, I.K., (2016). Using Unmanned Aerial Vehicle (UAV) for spatio-temporal monitoring of soil erosion and roughness in Chania, Crete, Greece, <i>EGU General Assembly</i>, Geophysical Research Abstracts, Vol. 18, EGU2016-11937, Vienna, Austria, 17-22 April 2016.</p> <p><b>10.20 Alexakis, D.D.,</b> Daliakopoulos, I.N., Panagea, I.S., Tsanis, I.K., (2016). Assessing Soil Salinity with the use of WorldView-2 Hyperspectral Images in Timpaki, Crete. <i>EGU General Assembly</i>, Geophysical Research Abstracts, Vol. 18, <i>EGU2016-15418</i>, Vienna, Austria, 17-22 April 2016.</p> <p><b>10.19</b> Mexis, P.D., <b>Alexakis, D.D.,</b> Daliakopoulos I.N, Tsanis, I.K., (2016). Using Sentinel-1 and Landsat 8 satellite images to estimate surface soil moisture content, <i>EGU General Assembly</i>, Geophysical Research Abstracts, Vol. 18, <i>EGU2016-13782</i>, Vienna, Austria, 17-22 April 2016.</p>
2015	<p><b>10.18</b> Sarris, A., Papadopoulos, N., Cuenca-Garcia, C., <b>Alexakis, D.,</b> Manataki, M., Cantoro, G., (2015). Exposing the Urban Plan of the ancient city of Hyettos, Boeotia, Greece, <i>11th International Conference on Archaeological Prospection</i>, Warsaw, Poland, 15-19 September 2015.</p> <p><b>10.17</b> Sarris, A., Papadopoulos, N., Kokkinou, E., Soupios, P., Teichmann, M., Simyrdanis, K., Kakoulaki, G., <b>Alexakis, D.,</b> Manzetti, C., Luce, J-M., (2015). Uphill and Downhill Geophysical Challenges in Delphi, Greece, <i>11th International Conference on Archaeological Prospection</i>, Warsaw, Poland, 15-19 September 2015.</p> <p><b>10.16</b> Daliakopoulos, I., <b>Alexakis, D.D.,</b> Panagea, I., Tsanis, I.K., (2015). Assessing Soil Salinity with the use of WorldView-2 Hyperspectral Images in Timpaki, Crete, <i>EGU General Assembly</i>, Vienna, Austria, 12-17 April 2015.</p> <p><b>10.15</b> Vozinaki A.E.K., <b>Alexakis D.D.,</b> Tsanis I.K., Pappa, P., (2015). Hydrologic Simulation in Mediterranean flood prone Watersheds using high-resolution quality data, <i>EGU General Assembly</i>, Vienna, Austria, 12-17 April 2015.</p>
2014	<p><b>10.14 Alexakis, D. D.,</b> Gryllakis, M. G., Koutroulis, A. G., Agapiou, A., Themistocleous, K., Tsanis, I. K., Michaelides, S., Pashiardis, S., Demetriou, C., Aristeidou, K., Retalis, A., Tymvios, F., and Hadjimitsis, D.G., (2014). SATFLOOD: The contribution of Geoinformatics to flood risk assessment, <i>GEO European Project Workshop</i>, Athens, Greece, 12-13 June 2014.</p>

2013	<p><b>10.13</b> Agapiou, A., <b>Alexakis D.D.</b>, Sarris, A., Hadjimitsis, D.G., (2013). Contribution of ground spectroscopy to archaeological research, <i>AARG Conference</i>, Amersfoort, Netherlands, 26-28 September 2013.</p> <p><b>10.12</b> Agapiou A., <b>Alexakis D.D.</b>, Lysandrou V., Themistocleous K., Hadjimitsis D.G., (2013). Monitoring urban sprawl in the vicinity of Cultural Heritage Sites using Geoinformatics: the case study of the Paphos district, SW Cyprus, <i>2nd Cyprus Safety Platform Symposium in Man-Made Catastrophes</i>, Nicosia, Cyprus, 30 January 2013.</p>
2012	<p><b>10.11</b> <b>Alexakis D.D.</b>, Hadjimitsis D.G., Agapiou A., Retalis, A., Themistocleous K., Michaelides S, Pashiardis S., (2012). Development of methodology for the optimization of classification accuracy of Landsat TM/ETM+ imagery for supporting fast flood hydrological analysis, <i>EGU General Assembly 2012</i>, Vienna, Austria, 22-27 April 2012.</p> <p><b>10.10</b> Kleanthous, S. Hadjimitsis, D., Achilleos, K., Panayiotou, C., Themistokleous, K., Christofides, I., Fedra, K., Nisantzi, A., Agapiou, A., Papoutsas, C., <b>Alexakis, D.</b>, Mammouri, R., Demetriadou, C., Christodoulides, P., (2012). PM3-Particulate Matter Monitoring' LIFE+ Project: integration of Satellite Remotely Sensed Data and Ground measurements <i>32<sup>nd</sup> EARSEL (European Association of Remote Sensing Laboratories) Symposium</i>, Mykonos, Greece, 21-24 May 2012.</p> <p><b>10.9</b> <b>D.D. Alexakis</b>, D.G. Hadjimitsis, A. Agapiou, K. Themistokleous, S. Michaelides, S. Pashiardis, F. Tymvios, A. Retalis, (2012). Integrated use of satellite remote sensing and hydraulic modeling for flood risk assessment at a catchment scale in Cyprus, <i>1st Cyprus Safety Platform Symposium in Man-Made Catastrophes</i>, Nicosia, Cyprus, 30 January 2012.</p> <p><b>10.8</b> A. Agapiou, D.G. Hadjimitsis, <b>D.D. Alexakis</b>, K. Themistokleous, (2012). Monitoring Urban Expansion in the vicinity of archaeological sites of Cyprus, <i>1st Cyprus Safety Platform Symposium in Man-Made Catastrophes</i>, Nicosia, Cyprus, 30 January 2012.</p>
2011	<p><b>10.7</b> Hadjimitsis, D., <b>Alexakis, D.</b>, Michaelides, S., Retalis, A., Tsanis, I., Demetriou, C., Agapiou, A., Themistokleous, K., Pashiardis, S., Tymvios, F., (2011). SATFLOOD project: An integrated use of satellite remote sensing and hydraulic modeling for the flood risk assessment at a catchment scale in Cyprus. <i>Geophysical Research Abstracts Vol. 13</i>, EGU2011-14142, 2011 <i>EGU General Assembly</i>, Vienna, Austria, 03-08 April 2011.</p> <p><b>10.6</b> Agapiou A., <b>Alexakis D.</b>, Hadjimitsis D.G. &amp; Themistocleous K., (2011). Earth Observations and Ground Measurements for Cultural Heritage Protection: the Case Study of Cyprus, <i>1st International Conference on Safety and Crisis Management in the Construction, SME and Tourism Sectors</i>, Nicosia, Cyprus, 24 – 28 June 2011.</p>
2008	<p><b>10.5</b> <b>Alexakis, D.</b>, Sarris, A., Astaras, Th., Oikonomidis, D., (2008). Geomorphologic and Satellite Imagery Approaches for the Reconstruction of Neolithic Thessaly landscape, <i>13<sup>th</sup> Belgium-France-Italy-Romania Geomorphological Meeting - Landscape Evolution &amp; Geoarchaeology</i>, Porto Heli, Greece, 18-21 June 2008.</p> <p><b>10.4</b> Kalisperi, D., Papadopoulos, I., Kouli, M., <b>Alexakis, D.</b>, Soupios, P., Kershaw, S., Makris, J., and Vallianatos, F., (2008). Groundwater management of coastal aquifer applying geophysical and geological information, <i>The Role of Hydrology in Water Resources Management, IAHS UNESCO Symposium</i>, Isle of Capri, Napoli, Italy, October 13-16, 2008.</p> <p><b>10.3</b> Pantelis Soupios, Maria Kouli, <b>Dimitris Alexakis</b>, Asimina Kanta, Derek Rust and Filippou Vallianatos, (2008). An integrated approach for the representation of potential groundwater zone</p>

	<p>using satellite and geophysical data, <i>The Role of Hydrology in Water Resources Management, IAHS UNESCO Symposium</i>, Isle of Capri, Napoli, Italy, October 13-16, 2008.</p> <p><b>10.2 Dimitris Alexakis</b>, Maria Kouli, Pantelis Soupios and Filippos Vallianatos, (2008). Integrated Remote Sensing and GIS techniques for mapping multitemporal land degradation and desertification in Crete – Greece, <i>28th EARSeL Symposium and Workshops, Remote Sensing for a Changing Europe</i>, Istanbul, Turkey, 2-7 June, 2008.</p>
2005	<p><b>10.1 Kouli M., Alexakis D., Soupios P., Vallianatos F.</b>, (2005). GIS-based morphometric analysis of Keritis and Tauronitis drainage networks, Western Crete, Greece, <i>Poster submitted in the Applied Geophysics for Engineering</i>, Messina, Italy, 13-16 October 2005.</p>

## 11. REVIEWER IN PEER REVIEW JOURNALS

<ul style="list-style-type: none"> <li>• Member of the <b>Editorial Board</b> of “<b>Remote Sensing</b>” <b>MDPI</b> journal (<i>Environmental Remote Sensing</i> section)</li> <li>• Member of the <b>Editorial Board</b> of “<b>Open Geosciences</b>” journal.</li> <li>• Lead guest Editor in <i>Remote Sensing (MDPI) (IF:4118)</i> journal: “<b>Remote Sensing of Soil Erosion</b>”</li> <li>• Guest editor in <i>Remote Sensing (MDPI)</i> journal special issue: “<b>Remote Sensing of Soil Salinity</b>”</li> <li>• Guest editor in <i>Big Earth Data</i> journal special issue: “<b>Big Earth Data for Cultural Heritage</b>”</li> <li>• Certificate of outstanding contribution in reviewing from “<b>The Egyptian journal of Remote Sensing and Space Science</b>”</li> </ul> <p>Reviewer in <b>twenty five (27)</b> peer review journals:  <i>Science of the total Environment; Atmospheric Research; Journal of Archaeological Science; Remote Sensing MDPI; Open Geosciences; PLOS ONE; Natural Hazards; Computers and Geosciences; The Egyptian Journal of Remote Sensing and Space Science; Journal of Earth Science and Climatic Change; African Journal of Environmental Science and Technology; Journal of Tethys; Archaeological and Anthropological Sciences; International Journal of Remote Sensing; Environmental Earth Science; Geocarto International; IEEE J-STARS; Climate research; Geosciences; Sensors; Photogrammetric; Engineering and Remote Sensing; Journal of Imaging; Sustainability; Physics and Chemistry of the Earth; International Journal of Applied Earth Observation and Geoinformation</i></p>
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## 12. ACADEMIC NOTES

2013	<p><b>12.6 Alexakis Dimitrios</b>, Diofantos Hadjimitsis: Academic Notes of the lesson “<b>Radiometry and Microwave Remote Sensing</b>”, Department of Civil Engineering and Geoinformatics, Cyprus University of Technology.</p>
2012	<p><b>12.5 Alexakis Dimitrios</b>: Academic Notes of the lesson “<b>Principles of Geoinformatics and Geographical Information Systems</b>”, Department of Civil Engineering and Geoinformatics, Cyprus University of Technology.</p> <p><b>12.4 Kouli Maria, Alexakis Dimitrios</b>: Academic notes of the lesson “<b>Application of Geoinformatics to the management of Physical Environment</b>”, Department of Natural Resources and Environment, Technological Educational Institute of Crete.</p>
2005	<p><b>12.3 Alexakis Dimitrios, Kouli Maria</b>: E-Learning notes, “<b>Geographical Information Systems - GIS</b>”, Technological Educational Institute of Crete – University of Athens.</p>



2004	<b>12.2 Kouli Maria, Alexakis Dimitrios:</b> Laboratory notes of the lesson <b>“Remote Sensing – Digital Image Analysis”</b> , Department of Natural Resources and Environment, Technological Educational Institute of Crete.
2004	<b>12.1 Alexakis Dimitrios, Kouli Maria:</b> Laboratory notes of the lesson <b>“Geographical Information Systems - GIS”</b> , Department of Natural Resources and Environment, Technological Educational Institute of Crete.

### 13. MEMBER OF ADVISORY AND EXAMINATION COMMITTEES (PHDs/ MSc/ Post GRADUATES)

	<p><b>PhD Theses:</b></p> <ol style="list-style-type: none"> <li>1. Pantazopoulou, Zoi, (2019-). <i>“Contribution of Remote Sensing and GIS to the management of geological heritage at various scales”</i>, Aristotle University of Thessaloniki, Geology Department, <b>(Member of the Advisory Committee)</b>.</li> <li>2. Diamanti Anastasia, (2020). <i>“Contemporary natural and anthropogenic processes that contribute to the formation of the coastal zone of Pieria, Greece”</i>, Aristotle University of Thessaloniki, Geology Department, <b>(Member of the Examination Committee)</b>.</li> <li>3. Domakinis, Christos, (2020). <i>“Use of remote sensing and Geographic information systems in mapping flood extent and assessing flood hazard. Application example: Evros’s tributary, Erythropotamos river”</i>. Aristotle University of Thessaloniki, Geology Department, <b>(Member of the Examination committee)</b>.</li> <li>4. Issaoui, Wissal, (2018-). <i>“Characterization and environmental assessment of olive mill wastewater (OMW) ponds and use of decision support tools for selecting new appropriate sites for OMW disposal sites”</i>. University of Carthage, Tunisia, <b>(Member of the Advisory Committee)</b>.</li> </ol> <p><b>M.Sc Theses:</b></p> <ol style="list-style-type: none"> <li>1. Brini, Imen, (2020-2021). <i>“Using geoinformatics for studying soil erosion in Crete, Greece”</i>, Mediterranean Agronomic Institute of Chania (Mediterranean Agronomic Institute Chania) <b>(Member of the Advisory Committee)</b>.</li> <li>2. Spanos, George, (2019-2020). <i>“Studying shoreline evolution with means of Geoinformatics. A case study in Crete, Greece.”</i> Mediterranean Agronomic Institute of Chania (Mediterranean Agronomic Institute Chania) <b>(Member of the Advisory Committee)</b>.</li> </ol> <p><b>Undergraduate theses:</b> Participation in ten (10) theses (since 2011) both as member of the advisory and examination committee. Five (5) theses were carried out at Technical University of Crete, two (2) theses at Cyprus university of Technology and three (3) theses at Technological Educational Institute of Crete.</p>
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### 14. SELECTED SEMINARS

2014	<b>“UAV Experts Round table”</b> in the frame of ArchaeoLandscapes Europe" (ArcLand) project, IMS-FORTH, Rethymno, Greece, 21-22 of January 2014.
2013	<b>“European Space Agency (ESA) Radar Remote Sensing Course”</b> , Frederick University, Nicosia, Cyprus
2005	<b>“23<sup>rd</sup> UNESCO Workshop for the seismicity and Earthquake Engineering in the Extended Mediterranean Region”</b> , Chania, Crete, Greece.

<b>2003</b>	<b><i>“Introduction to GIS. ArcGIS (Spatial Analyst, 3D Analyst).”</i></b> Aristotle University of Thessaloniki, April 2003, Thessaloniki, Greece.
<b>2002</b>	<b><i>“Radars in Remote Sensing”</i></b> , Technical University of Crete, Chania, Crete, Greece.
<b>2001</b>	<b><i>“Hellenic Speleological Society”</i></b> , Thessaloniki, Greece.

#### 15. PARTICIPATION IN SCIENTIFIC AND RESEARCH COMMUNITIES

<b>2013- today</b>	European Geosciences Union (EGU)
<b>2001- today</b>	Greek Geotechnical Chamber