

C U R R I C U L U M V I T A E

Nektarios CHRYSOULAKIS

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Personal

FIRST NAME Nektarios
LAST NAME Chrysoulakis
FATHER'S NAME Miltiadis
BIRTH PLACE Ierapetra, Crete, Greece
BIRTH DATE June 4, 1970
PROFESSION Physicist, PhD holder (University of Athens)
OCCUPATION Director of Research (Grade A) in Foundation for Research and Technology – Hellas (FORTH)
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<http://www.iacm.forth.gr>
<http://works.bepress.com/chrysoulakis>

Education

1996-2000 PhD in Remote Sensing, Department of Physics, University of Athens.
PhD Thesis: "Development of a Model Algorithm for the detection and Monitoring of Major Fires and Plumes caused by Industrial Accidents with the use of Satellite Remote Sensing"
1993-1995 MSc in Environmental Physics, Department of Physics, University of Athens
1989-1993 Bachelor Degree in Physics, Department of Physics, University of Athens

Professional Interests

- Satellite Remote Sensing
- Urban Environment, Urban Surface Energy Budget, Microclimatic Studies
- Thermal Infrared Studies, Surface Temperature Estimation
- Atmospheric Physics - Radiative Transfer
- Atmospheric correction.
- Earth Observation Time Series Analysis
- Environmental Monitoring, Change Detection
- Development of Land Use/Cover Databases
- Digital Terrain Models, 3D Visualizations
- Natural and Technological Risk Analysis
- Geographical Information Systems, Spatial Analysis
- Spatial Decision Support Systems

Professional Experience

2014 - **Director of Research (Grade A) in Foundation for Research and Technology - Hellas, Institute of Applied and Computational Mathematics**

Head of the Laboratory of Remote Sensing Research and Applications in Urban and Natural Environment (<http://rslab.gr>)

Coordinator of the following R&D projects:

- **SEN4RUS:** exploiting Sentinels for supporting urban planning applications at city and regional levels in Russia: developing environmental indicators and a web-based information system to exploit the information content provided by Copernicus Sentinels mass data streams in support of urban planning at local and regional scales in Russia.

*Funding Organization: European Union, FP7 - ERA.Net-RUS Plus
Duration: 2016 - 2019.*

- **URBANFLUXES:** URBan ANthropogenic heat FLUX from Earth observation Satellites: investigate the potential of Earth Observation to retrieve the anthropogenic heat flux, as a key component in the urban energy budget and develop a method to derive it from space.

*Funding Organization: European Union, Horizon2020 - Space
Duration: 2015 - 2017.*

- **CitySen:** exploitation of dynamic Earth Observation in supporting Sustainable Urban Planning towards Climate Change Mitigation and Adaptation. Innovation Voucher from the Earth Observation Entrepreneurship Initiative of the European Space Agency, for the development of a Business Plan for establishing a Start-up and preparing its candidature for incubation in ESA BIC Noordwijk.

*Funding Organization: European Space Agency (ESA-EOEI)
Duration: 2016*

- **EO4SEB:** Advanced Earth Observation techniques for urban Surface Energy Balance modeling (Bilateral cooperation: Greece - France)

*Funding Organization: General Secret. for Research & Technology
Duration: 2013 - 2015.*

Participation in the following R&D projects:

- **IGIC: Improvement of green infrastructure in agroecosystems: reconnecting natural areas by countering habitat fragmentation:** Development of a Green Infrastructure network providing the basis for reconnecting existing nature areas of the NATURA 2000 network and conserve biodiversity. The network will play a demonstrative role in regional, national and EU level.

*Funding Organization: European Union - LIFE+
Duration: 2017 - 2022.*

- **ThinkNature:** Development of a multi-stakeholder communication platform that will support the understanding and the promotion of Nature Based Solutions in local, regional, EU and International level.
Funding Organization: European Union, Horizon2020: Climate action, environment, resource efficiency and raw materials
Duration: 2016 - 2019.
- **ECOPOTENTIAL:** Improving future Ecosystem benefits through Earth Observations: development of a new unified framework for ecosystem studies and management of protected areas.
Funding Organization: European Union, Horizon2020: Climate action, environment, resource efficiency and raw materials
Duration: 2015 - 2019.
- **ARCHERS:** Advancing Young Researchers' Human Capital in Cutting Edge Technologies in the Preservation of Cultural Heritage and the Tackling of Societal Challenges.
Funding Organization: Stavros Niarchos Foundation
Duration: 2017 - 2019.
- **ENVIRONMENT:** Research in the Scientific area "Environment" in the framework of the Hellenic Republic-Siemens Agreement partially funded by the Programmatic Agreement Between Research Centers-GSRT 2015-2017.
Funding Organization: SIEMENS
Duration: 2015 - 2017.
- **FLIRE:** Floods and fire Risk assessment and management: Change the paradigm for the combined, effective and robust risk assessment and management of both flash floods and forest fires in peri-urban areas, using state of art tools, technologies and methods and taking into account prevention, adaptation and interaction issues.
Funding Organization: European Union - LIFE+
Duration: 2012 - 2015.
- **DRAGON 3:** ESA – MOST cooperation Programme. 3rd Framework Cooperation Program between European Space Agency and National Remote Sensing Center of China. Participation in Action: MONITOR: Definition of indicators at the urban scale as supported by EO data. (PI: Prof. D. Asimakopoulos, University of Athens).
Funding Organization: European Space Agency
Duration: 2012 - 2016.
- **PEFYKA:** Innovating methods for observation and improvement of environmental quality and for natural hazards mitigation.
Funding Organization: General Secret. for Research & Technology, Action "KRIPIS: Development proposals of Research Institutions"
Duration: 2013 - 2015.
- **SPIDonet.GR:** Spinning or speeding the web? Accelerating biodiversity research using ground spiders as ambassadors of Greek arthropod hotspots (PI: Prof. M. Alexiou - Chatzaki, Democritus University of Thrace).
Funding Organization: General Secret. for Research & Technology, Action "ARISTEIA II: Supporting human capital to promote research and innovation"
Duration: 2014 - 2015.

2005 - 2014 Senior Researcher (Grade B) in Foundation for Research and Technology – Hellas, Institute of Applied and Computational Mathematics

Coordinator of the following R&D projects:

- **EO4SEB:** Advanced Earth Observation techniques for urban Surface Energy Balance modeling (Bilateral cooperation: Greece - France)
Funding Organization: General Secret. for Research & Technology
Duration: 2013 - 2015
- **GEOURBAN:** Exploiting Earth Observation in sustainable urban planning & management: bridging the gap between Earth Observation scientists and urban planners focusing on urban structure and urban environmental quality.
Funding Organization: European Union, FP7 - ERA.Net-RUS
Duration: 2012 - 2013
- **BRIDGE:** Sustainable urban planning Decision support accounting for urban metabolism: Bridging the gap between bio-physical sciences and urban planners and to illustrate the advantages of accounting for environmental issues on a routine basis in design decisions, focusing on the interrelation between energy and material flows and urban structure.
Funding Organization: European Union, FP7 - Environment including Climate Change
Duration: 2008 - 2011
- **PROGRESSION:** Prototyping the retrievals of energy fluxes and surface soil moisture: Development of a series of prototype products for the operational retrieval of sensible and latent heat fluxes, as well as soil surface moisture content by using a synergy of ESA's satellite sensors (Post-doc research, PI: Dr. G. Petropoulos)
Funding Organization: European Space Agency - The Changing Earth Science Network
Duration: 2010 - 2012 (FORTH involvement: 2010 - 2011)
- **ATMOSAT:** Adjustment of atmospheric correction methods for local Studies: Application in ASTER data for the area of Crete (Bilateral cooperation: Greece - US - Japan).
Funding Organization: General Secret. for Research & Technology
Duration: 2006 - 2008
- **PRECIPITABLE WATER:** Study on the spatial – temporal distribution of atmospheric water content with the combined use of satellite remote sensing and non-linear science (Bilateral cooperation: Greece - China).
Funding Organization: General Secret. for Research & Technology
Duration: 2005 - 2007
- **PLUMESAT:** Use of a satellite ground receiving station for the detection and monitoring of fires and plumes caused by major natural and man-made disasters (Bilateral cooperation: Greece - France)
Funding Organization: General Secret. for Research & Technology
Duration: 2005 - 2007
- **REALDEMS:** Remote sensing Application for Land cover and Digital Elevation Models Service (Bilateral cooperation: Greece - US).
Funding Organization: General Secret. for Research & Technology
Duration: 2004 - 2006

- **SATERM:** A Satellite Technique for Estimating Rainfall over Mediterranean (Bilateral cooperation: Greece - US).
Funding Organization: General Secret. for Research & Technology
Duration: 2004 - 2006

Participation in the following R&D projects:

- **FLIRE –** Floods and fire Risk assessment and management: Change the paradigm for the combined, effective and robust risk assessment and management of both flash floods and forest fires in peri-urban areas, using state of art tools, technologies and methods and taking into account prevention, adaptation and interaction issues.
Funding Organization: European Union - LIFE+
Duration: 2012 - 2015.
- **DRAGON 3:** ESA – MOST cooperation Programme. 3rd Framework Cooperation Program between European Space Agency and National Remote Sensing Center of China. Participation in Action: MONITOR: Definition of indicators at the urban scale as supported by EO data. (PI: Prof. D. Asimakopoulos, University of Athens).
Funding Organization: European Space Agency
Duration: 2012 - 2016.
- **AKAIPRO:** Study of the extreme weather events in local scale to assess their impacts on civil protection and economy.
Funding Organization: General Secret. for Research & Technology – Cooperation 2011: Partnerships of Production and Research Institutions in Focused Research and Technology Sectors.
Duration: 2011 - 2013
- **DRAGON 2:** ESA – MOST cooperation Programme. 2nd Framework Cooperation Program between European Space Agency and National Remote Sensing Center of China. Participation in Action: Use of Earth Observation in support of Major Sport Events: Case Study for the Athens, Beijing and London Olympic Games (PI: Prof. D. Asimakopoulos, University of Athens).
Funding Organization: European Space Agency
Duration: 2008 - 2012.
- **UHI-** Urban Heat Islands and Urban Thermography. Analysis of the Urban Heat Island trends over 10 European cities over the last 10 years, using a multi-sensor approach. Participation as external expert (PI: Dr. I. Daglis, National Observatory of Athens).
Funding Organization: European Space Agency
Duration: 2008 - 2012.
- **TRANSFER:** Tsunami Risk ANd Strategies For the European Region. Specific Targeted Research Project (STREP). Contribution to our understanding of tsunami processes in the Euro-Mediterranean region, to assessing the tsunami risk and to identifying the best strategies for reduction of tsunami risk.
Funding Organization: European Union, FP6 - Sustainable Development, Global Change and Ecosystem
Duration: 2006 - 2008.

- **DRAGON 1:** ESA - MOST cooperation Programme. 1st Framework Cooperation Program between European Space Agency and National Remote Sensing Center of China. Participation in Action: Use of Earth Observation in Support of the Needs of Major Athletic Events: Case Study for the Olympic Games: Athens-Beijing-London, (PI: Prof. C. Cartalis, University of Athens).

Funding Organization: European Space Agency

Duration: 2005 - 2008.

- **ATLANTAS AKTIS:** Development and pilot operation of an integrated Geographical Information System in support of the coastal zone management.

Funding Organization: General Secret. for Research & Technology – European Regional Development Fund

Duration: 2006 - 2008

Operation of a low resolution satellite ground receiving station

The satellite station has been installed at FORTH/IACM since 2002. It receives AVHRR and MVIRS data from NOAA and Fen Yung satellites.

2001 - 2005 Associate Researcher (Grade C) in Foundation for Research and Technology – Hellas, Inst. of Applied and Computational Mathematics

Leading investigator of the following R&D projects:

- **GGOA-GIS:** Development of a GIS-based application to support the activities of the General Secretariat for the Olympic Games in monitoring the economic process of Olympic Works

Funding Organization: General Secret. for the Olympic Games 2004

Duration: 2003 - 2004

- **BLUE BOOKS:** Reconstruction and Enrichment of the Official Web Site of the International Olympic Academy

Funding Organization: General Secret. for the Olympic Games 2004

Duration: 2002 - 2003

Participation in the following R&D projects:

- **GipSyNoise:** An efficient GIS tool oriented to meeting the objectives of the European Directive on the Assessment and Management of Environmental Noise

Funding Organization: European Union - LIFE

Duration: 2003 - 2005

- **WADI:** Water Supply Watershed Planning and Management: An Integrated Approach.

Funding Organization: European Union, FP5 - INCO MEDII

Duration: 2001 - 2004

- **FORMIDABLE:** Friendly Operational Risk Management through Interoperable Decision Aid Based on Local Events.

Funding Organization: European Union, FP5 - IST

Duration: 1999 – 2002

1994 - 2001 *University of Athens, Department of Physics, Division of Appl. Physics.
Research Assistant in the Remote Sensing Laboratory.*

Participation in the following R&D projects:

- **AIR QUALITY:** An Information Campaign for Schools in the field of Air Quality and Urban Policy (the operation).
Funding Organization: European Union
Duration: 2000 - 2001
- **SUSTAINABLE SCHOOLS:** An Information Campaign for Schools in the field of Sustainable Use of Natural Resources.
Funding Organization: Ministry of Education
Duration: 2000 - 2001
- **GLOBE – ALEXANDROS:** Global Learning and Observations to Benefit the Environment.
Funding Organization: Ministry of Education, Ministry of Environment
Duration: 1996 - 1999
- **MEDACT** (MEDiterranean Action): The **APHRODITE** Project.
Funding Organization: European Union - LIFE
Duration: 1997 – 1998
- **DIFFUSION:** Education and Training Activities in Support of the Diffusion of Earth Observation in the Public Sector of Greece.
Funding Organization: European Union - CEO
Duration: 1997 – 1998
- **CO₂:** Estimation of the Impacts of CO₂ and other Greenhouse Effect Emissions on Climate Change.
Funding Organization: Ministry of Environment
Duration: 1996 – 1997
- **Application of Remote Sensing in Agriculture**
Funding Organization: European Union - CEO
Duration: 1996 - 1997

Invited Talks

- 2018:** Remote Sensing Technologies and Applications in Urban Environments, organized in the framework of SPIE Remote Sensing (<http://spie.org/conferences-and-exhibitions/remote-sensing>), 10-13/9/2018. Invited Talk on "Copernicus Sentinels for urban planning in Russia: the SEN4RUS Project" (Berlin, Germany).
- 2018:** Key-note Speaker in the 38th Annual EARSeL Symposium: "Earth Observation Supporting Sustainability Research", organized by the European Association of Remote Sensing Laboratories (<http://symposium.earsel.org/38th-symposium-Chania>), 9-12/7/2018. Invited Talk on "Energy Budget from Space: towards supporting Sustainable Urban Planning" (Chania, Greece).
- 2018:** Workshop on "Big Data processing in the forthcoming era of ultra-high resolutions", organized in the framework of BigSkyEarth COST Action (<http://bigskyearth.eu>), 26-27/2/2018. Invited Talk on "Massive data analysis in urban climate research" (Novi-Sad, Serbia).
- 2017:** Remote Sensing Technologies and Applications in Urban Environments, organized in the framework of SPIE Remote Sensing (<https://spie.org/conferences-and-exhibitions/remote-sensing>), 11-14/9/2017. Invited Talk on "Anthropogenic heat flux estimation from space: results of the final phase of the URBANFLUXES Project" (Warsaw, Poland).
- 2017:** Urban Climate and Urban Biometeorology Session, organized in the framework of the European Geoscience Union General Assembly, on April 26, 2017 (<http://meetingorganizer.copernicus.org/EGU2017/orals/22751>). Invited Talk on "Anthropogenic heat flux estimation from space: results of the second phase of the URBANFLUXES Project" (Vienna, Austria).
- 2016:** Remote Sensing Technologies and Applications in Urban Environments, organized in the framework of SPIE Remote Sensing (<http://spie.org/conferences-and-exhibitions/remote-sensing>), 26-29/9/2016. Invited Talk on "Anthropogenic heat flux estimation from space: results of the first phase of the URBANFLUXES Project" (Edinburg, United Kingdom).
- 2016:** European Space Agency Summer Schools on Monitoring of the Earth System (<https://earth.esa.int/web/eo-summer-school/home>), held at ESA/ESRIN on 1-12/8/2016. Invited Lectures on: a) "Urban Remote sensing applications", b) "The exploitation of EO in urban energy budget estimation" and c) "EO-derived surface albedo time series" (Frascati, Italy).
- 2016:** International SPatial LITeracy (SPLIT), Remote Sensing Summer School 2016, held at the Mediterranean Agronomic Institute of Chania, on 5-10/6/2016 (<http://splitters2016.com/>). Invited Talk on "Earth Observation for Urban Climate" (Chania, Greece).
- 2016:** EASME: 10th GEO European Projects Workshop 2016 on "Fostering Open Earth Observation for Europe", held at the Federal Ministry of Transport and Digital Infrastructure of Germany, on 31/5-2/6/2016 (<https://ec.europa.eu/easme/en/geo-european-projects-workshop-2016>). Invited Talk on "Urban Anthropogenic Heat Flux Measured from Earth Observation Satellites – The H2020 Project URBANFLUXES" in the framework of "Earth Observation in Support of Urban Monitoring" (Berlin, Germany).
- 2016:** National Observatory of Athens, Master of Science in Space Science Technologies and Applications (<http://space.uop.gr>) 1/3/2016. Invited Talk on "Urban Heat Fluxes from Earth Observation" (Athens, Greece).
- 2015:** Directorate-General for Regional and Urban Policy, workshop on "Copernicus and the Urban Atlas: Measuring cities and their qualities", held in the framework of Open Days 2015 (13th European Week for Regions and Cities), on 15/10/2015 (http://ec.europa.eu/regional_policy/opendays/od2015/index.cfm). Invited Talk on "Urban Atlas in Urban Research projects" (Brussels, Belgium).

- 2015:** National and Kapodistrian University of Athens. MSc Program in Environmental Physics and Meteorology: Invited Talk on "Urban Metabolism: Introduction and bottom-up approaches" (Athens, Greece).
- 2014:** International Symposium on "The Mediterranean City 2014: Adaptation Strategies to Global Environmental Change in the Mediterranean City and the Role of Global Earth Observations", jointly organised by the European Commission, the Eurisy, the Mediterranean City Climate Change Consortium, the Mariolopoulos – Kanaginis Foundation for the Environmental Sciences, the Academy of Athens and the Justus-Liebig University of Giessen: Invited Talk on "EO for Urban Planning: The GEOURBAN Project" (Athens, Greece).
- 2014:** International Conference on "Renaturing Cities: Addressing Environmental Challenges and the Effects of the Economic Crisis through Nature-Based Solutions", organized by the European Commission (Directorate for Climate Action and Resource Efficiency) under the auspices of the Hellenic Presidency of the Council of the European Union: Rapporteur in Session 1 "Going Green: How are cities facing the economic crisis and leading green economy?" (Brussels, Belgium).
- 2014:** National and Kapodistrian University of Athens. MSc Program in Environmental Physics and Meteorology: Invited Talk on "Urban Metabolism: Introduction and bottom-up approaches" (Athens, Greece).
- 2014:** National and Kapodistrian University of Athens. MSc Program in Environmental Physics and Meteorology: Invited Talk on "Urban Remote Sensing" (Athens, Greece).
- 2014:** Workshop on "Global Urban Observation and Monitoring from Space", organized by the National Observatory of Athens, in the framework of the FP7 project BEYOND: Invited talk on "EO for Urban Planning: The GEOURBAN Project" (Athens, Greece).
- 2013:** Workshop of the Med Project MAIN on "Smart materials: Energy efficiency and improvement of urban microclimate", co-organized by the Municipality of Acharnes, the Athens Chamber, to Institute of Accelerating Systems and Applications and the University of Athens: Invited talk on "Use of Earth Observation in improving of urban microclimate" (Acharnes, Greece).
- 2013:** DG Research & Innovation, workshop on "Fostering innovative dialogue between researchers and stakeholders to meet future challenges: Land, Soil, Desertification, Urban and Community-Based Environmental Management": Invited talk on "Communities of Practice: Lessons/Examples from BRIDGE and GEOURBAN Projects" (Brussels, Belgium).
- 2012:** DG Research & Innovation – DG RTD, I.3, Meeting of Coordinators (Urban issues, Soil Biodiversity, Desertification and Land Degradation): Invited talk on "BRIDGE Main Achievements" (Brussels, Belgium).
- 2012:** Urban Physics and interactions across the Scales (<http://www.urbanphysics2012.org/>): Lecture on "Urban Remote Sensing", in Spring School 2012: An international specialized workshop for doctoral students and post doctoral researchers, organized by the University of Cyprus, the Swiss Federal Institute of Technology Zurich (ETH) and the Eindhoven University of Technology (Limassol, Cyprus).
- 2011:** FRENZ (Facilitating Research co-operation between Europe and New Zealand) Project: Invited talk on "BRIDGE: A decision support tool for sustainable urban metabolism", in a Sandpit workshop on ICT Tools for Governance and Policy Modelling (Rotorua, New Zealand).
- 2011:** DG Research & Innovation – DG RTD, I.3, FP7 Coordinators Meeting: Invited talk on "BRIDGE Project Overview and Results" (Brussels, Belgium).
- 2010:** Cyprus University of Technology: Invited talk on "Space Applications for Cyprus and the Mediterranean Region", in a workshop organized by the European Space Agency and the Frederick University (Nicosia, Cyprus).
- 2009:** ICT-ENSURE (European ICT Environmental Sustainability Research) Project: Invited talk on "ICT for Urban Metabolism: The case of BRIDGE", in a workshop on ICT for Sustainable Use of Natural Resources (<http://ict-ensure.tugraz.at/en/index.php/ensure/>)

Organisational-Content/Downloads-Resources/Presentation-Slides/EnviroInfo-2009-Berlin), that was organized in the framework of EnviroInfo 2009 (Berlin, Germany).

2007: Hellenic Association of Rural and Surveying Engineers: Invited talk on “Remote sensing and GIS” in a workshop on “The Development of GIS for Local and Regional Governance” (Volos, Greece).

2006: University of the Aegean: Invited Talk on “Digital Elevation Models Production using Satellite stereo-pairs: Applications of ASTER derived Digital Elevation Models and Land Cover/Use” (Mytiline, Greece).

2005: Jet Propulsion Laboratory: Invited talk on “Combining Satellite and Socioeconomic Data for Land Use Models Estimation” (Pasadena, USA).

2004: Land-Water-MED Network: Invited talk on “Use of ASTER imagery in GIS-based Watershed Analysis at Mediterranean Islands”, in Land-Water-MED Workshop, held in Joint Research Centre (Ispra, Italy).

Languages

Greek, English

Honors and Awards

Vardinogianneion Foundation Award (1996 - 1997)

Referee in International Journals

Scientific Reports
Remote Sensing of Environment
International Journal of Remote Sensing
Photogrammetric Engineering and Remote Sensing
IEEE Transactions on Geoscience and Remote Sensing
ISPRS Journal of Photogrammetry and Remote Sensing
Remote Sensing
Optical Engineering
Journal of Applied Meteorology & Climatology
Meteorology and Atmospheric Physics
Advances in Space Research
Urban Ecosystems
Journal of Water Resources Management
Journal for Nature Conservation
Journal of Applied Remote Sensing
Journal of Electronic Imaging
Environmental Modelling and Software
Sensors
Applied Geomatics
Acta Geophysica
International Journal of Low-Carbon Technologies
Advances in Building Energy Research
Journal of Industrial Ecology
Landscape and Urban Planning
Frontiers of Earth Science
Solar Energy

Educational Activities

2009 - 2018 University of Crete, Department of Physics

- Visiting Professor for the course of "**Principles and Applications of Satellite Remote Sensing**". Academic Years **2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017** and **2017 - 2018**.

Course URL: <http://ph338.edu.physics.uoc.gr>

2015 - 2018 Mediterranean Agronomic Institute of Chania (MAICh)

- Visiting Professor for the course of "**Remote sensing of Urban Environments**" of The Master Programme "Geoinformation in Environmental Management". Academic Years **2015 - 2016, 2016 - 2017** and **2017 - 2018**.

URL: <http://www.maich.gr/en/education>

2016 - University of Crete, Department of Biology

- Member of the advisory committee for the PhD candidate Mr. N. Klamos; topic: "Small Mammals of Greece: A survey of distributions and ecological preferences combining GIS and Tyto alba pellets analysis".

2015 - National and Kapodistrian University of Athens, Department of Physics

- Member of the advisory committee for the PhD candidate Mr. E. Agathagelidis; topic: "Detection of urban energy fluxes, estimation of ecosystem and anthropogenic contribution to energy fluxes and development of an urban heat island indicator".
- Member of the advisory committee for the PhD candidate Mrs Th. Mayrakou; topic: "Climate change mitigation through the study of the urban energy budget, based on combined use of advance remote sensing techniques and numerical models"

2013 - 2016 Tor Vergata University of Rome, Department of Information, Systems and Production

- Member of the advisory committee for the PhD candidate Mrs. Z. Mitraka; topic: "Dynamics, magnitude and spatial form of the urban heat island effect and its impact on the biophysical, climatic and environmental processes"

2014 - 2015 University of Hamburg, Department of Mathematics: Erasmus Mundus MSc in Mathematical Modeling and Engineering

- Member of the advisory committee for the PhD candidate Mr. A. Beloconi; topic: "Spatio-temporal approach for the estimation of urban PM2.5 and PM10 concentrations, based on MERIS/AATSR synergistic observations and urban land cover and morphology data".

2013 - 2015 National and Kapodistrian University of Athens, Department of Physics

- Invited lecturer in post-graduate studies program "Environmental Physics and Meteorology".

- 2013 - 2014 University of Crete, Department of Biology**
- Invited lecturer in post-graduate studies program “Environmental Biology - Terrestrial and Marine biological resources management”.
- 2008 - 2013 Aristotle University of Thessaloniki, Department of Geology**
- Member of the advisory committee for the PhD candidate Mr. A. Giannakos; topic: “Contribution to the development of a technique for the estimation of rainfall from multispectral satellite data”.
- 2009 - 2012 Cyprus University of Technology, Dept. of Civil Engineering-Geomatics**
- Member of the advisory committee for the PhD candidate Mr. K. Themistocleous; topic: “Improving atmospheric correction methods for aerosol optical thickness retrieval supported by in-situ observations and GIS analysis”.
- 2007 - 2010 National and Kapodistrian University of Athens, Department of Physics**
- Member of the advisory committee for the following PhD candidates:
 - ✓ Mrs N., Adaktylou; topic: “Design, development and evaluation of a learning platform for satellite remote sensing”.
 - ✓ Mrs M. Stathopoulou; topic: “Improvement of spatial scale land of AVHRR land surface temperature retrievals to improve the estimation of surface urban heta island intensity”.
- 2005 - 2006 University of the Aegean, Department of Geography**
- Invited lecturer in post-graduate studies program “Geography & Applied Geo-informatics”.
- 2001 - FORTH, Institute of Applied and Computational Mathematics**
- Advisor in undergraduate thesis and internships of students from University of Crete (Dept. of Physics and Dept. of Applied Mathematics) and from Technological Educational Institute of Crete (Dept. of Applied Informatics and Multimedia, Dept. of Environment Management).
- 2000 - 2001 University of Athens, Department of Physics**
- Laboratory courses on Physics (Mechanics - Oscillations - Relativity Theory) for the undergraduate students.
 - Development of Distance Learning courses on Environmental Education focusing on Energy Consumption and CO₂ Emissions.
 - Development of Distance Learning courses on sustainable use of natural resources in schools.
- National Technical University of Athens, Faculty of Naval Architecture**
- Participation in courses on Remote Sensing Methods and Databases for the study of the Marine Environment for the graduate students.
- 1995 - 1998 University of Athens, Department of Physics**
- Undergraduate laboratory courses on Atmospheric Physics.
 - Development of Distance Learning courses on Digital Image Processing and Remote Sensing Applications. (<http://sat.uoa.gr/diff>).

Professional Memberships

- American Geophysical Union (AGU)
- European Geoscience Union (EGU)
- International Society for Optical Engineering (SPIE)
- International Association of Urban Climate
- European Association of Remote Sensing Laboratories (EARSeL)
- Hellenic Society for Photogrammetry & Remote Sensing (HSPRS)
- Hellenic Society for Geographical Information Systems (HellasGI).
Member of the Management Board 2004 - 2006.
- Hellenic Physicists Society
- Hellenic Meteorological Association

Scientific Collaborations

- National and Kapodistrian University of Athens (GR)
- National Observatory of Athens (GR)
- University of the Aegean (GR)
- University of Thessaly (GR)
- National Technical University of Athens (GR)
- University of Crete (GR)
- Technical University of Crete (GR)
- Aristotle University of Thessaloniki (GR)
- Cyprus University of Technology (GR)
- JPL (USA)
- GSFC (USA)
- INRIA (FR)
- European Space Agency
- DLR (D)
- CNES (FR)
- SAGA University (JP)
- Chengdu University of Information Technology (CN)
- King's College London (UK)
- Consiglio Nazionale delle Ricerche (IT)
- Instytut Ekologii Terenów Uprzemysłowionych (PL)
- CESBIO (FR)
- Technical University of Madrid (ES)
- University of Southampton (UK)
- GRAD Inform (RUS)
- Kuzgun Bilisim Ltd. (TR)
- DATAMAT S.A. (IT)
- FMA (IT)
- VITROCISSET S.p.A. (IT)
- UCM (ES)
- CIDA (ES)
- EADS (FR)
- Dartcom (UK)
- Trinity College Dublin (IR)
- University of Helsinki (FI)
- CMCC (IT)
- Météo France CNRM (F)
- Alterra B.V (NL)
- University of Basel (CH)
- University of Aveiro (PT)
- Tel-Aviv University (IL)
- University of Hamburg (D)
- GARD Ltd. (IL)
- DELTARES (NL)
- TerraDue (UK)
- Google-GEE (CH)

Evaluator of Scientific Proposals

- National Centre of Science and Technology Evaluation (JSC) of Kazakhstan: Evaluator of research proposals in the domains of information, telecommunication and space technologies and scientific research in the field of natural sciences and Earth's remote sensing (November 2017).
- DLR: Evaluator of research proposals in the framework of ERANETMED (September 2017).
- DLR: Evaluator of research proposals in the framework of ERANETRUS Plus (September 2017).
- Hellenic Foundation for Research and Innovation (HFRI): Evaluator of research proposals in the framework of the 1st call for research proposals from Postdoctoral Researchers (August 2017).
- European Research Council (ERC): Evaluator of proposals submitted to the 2017 call of its funding scheme "Starting Grants" (May 2017).
- DLR: Evaluator of research proposals in the framework of ERANETMED (August 2016).
- General Secretariat for Research and Technology: Evaluator of proposals for the action "Business Support for the employment of highly qualified personnel" in the framework of the Operational Programme "Employment and Vocational Training" (October, 2015).
- DLR: Evaluator of research proposals in the framework of ERANETMED (July 2015).
- National Centre of Science and Technology Evaluation (JSC) of Kazakhstan: Evaluator of research proposals in the domains of environment, geography and urban planning (November 2014).
- General Secretariat for Research and Technology: Evaluator of proposals for the action "Business Support for the employment of highly qualified personnel" in the framework of the Operational Programme "Employment and Vocational Training" (April 2014).
- General Secretariat for Research and Technology: Evaluator of proposals for the action "Business Support for the employment of highly qualified personnel" in the framework of the Operational Programme "Employment and Vocational Training" (February 2012).
- State Scholarships Foundation: Evaluator, in the framework of the Operational Programme "Education and Lifelong Learning", of proposals for scholarships from candidate doctors abroad and for candidates for a postgraduate specialization diploma in Greece and abroad, for the academic year 2011-2012 (October 2011).
- Research Promotion Foundation of Cyprus: Evaluators of proposal in the domain of use of Earth Observation and GIS to study the natural environment (Heraklion, 2010).
- Reviewer of the Project "THETIS: Satellite system for the estimation of vessel traffic", funded by the General Secretariat for Research and Technology under the 3rd European Support Framework, PEP of West Greece, measure 3.4 (Patras, 2009).
- Cyprus University of Technology: Evaluator of proposal in the domain of use of Earth Observation and GIS to study the natural environment (Limassol, 2008).

Chairman in Scientific Conferences

- Conference Chair of "Remote Sensing Technologies and Applications in Urban Environments" held in the framework of SPIE International Symposium on Remote Sensing (Berlin, 2018).
- Chairman of the Session "Urban Air Quality and Climate II" of SPIE International Symposium on Remote Sensing (Berlin, 2018).
- Chairman of the Session "Mapping of the Built Environment I" of SPIE International Symposium on Remote Sensing (Berlin, 2018).
- Coordinator of the Session "Innovative methodologies for continuous monitoring and support of the evaluation of nature based-solutions", held in the framework of

HORIZON2020 European Dialogue and clustering action Transforming cities, enhancing wellbeing: innovating with nature-based solutions (A Coruña, 2018).

- Conference Chair of “Remote Sensing Technologies and Applications in Urban Environments” held in the framework of SPIE International Symposium on Remote Sensing (Warsaw, 2017).
- Chairman of the Session “Urban Air Quality and Climate II” of SPIE International Symposium on Remote Sensing (Warsaw, 2017).
- Chairman of the Session “Urban Monitoring and Planning I” of SPIE International Symposium on Remote Sensing (Warsaw, 2017).
- Chairman of the Session “Urban Monitoring and Planning III” of SPIE International Symposium on Remote Sensing (Warsaw, 2017).
- Chairman of the Special Session “Urban Climate & Environment” of ISRSE37: 37th International Symposium on Remote Sensing of Environment (Tshwane, 2017).
- Chairman of the Special Session “Remote sensing of urban heat fluxes” of JURSE 2017: Joint Urban Remote Sensing Event (Dubai, 2017).
- Conference Chair of “Remote Sensing Technologies and Applications in Urban Environments” held in the framework of SPIE International Symposium on Remote Sensing (Edinburg, 2016).
- Chairman of the Session “Smart Cities” of SPIE International Symposium on Remote Sensing (Edinburg, 2016).
- Chairman of the Session “Urban Morphology and Infrastructures III” of SPIE International Symposium on Remote Sensing (Edinburg, 2016).
- Chairman of the Session “Spectroscopy - Urban Remote Sensing – Mapping” of the RSCy2013: First International Conference on Remote Sensing and Geoinformation of Environment (Pafos, 2013).
- Chairman of the Session “3D Modeling and Urban Applications” of the 9th SPIE International Symposium on Remote Sensing (Heraklion, 2002).

Member of Scientific Committees in Conferences

- Member of the International Scientific Committee of the SPIE International Symposium on Remote Sensing (Berlin, 2018).
- Member of the International Scientific Committee of RSCy2018: Sixth International Conference on Remote Sensing and Geoinformation of Environment (Pafos, 2018).
- Member of the International Scientific Committee of the SPIE International Symposium on Remote Sensing (Warsaw, 2017).
- Member of the International Scientific Committee of the of JURSE 2017: Joint Urban Remote Sensing Event (Dubai, 2017).
- Member of the International Scientific Committee of RSCy2017: Fifth International Conference on Remote Sensing and Geoinformation of Environment (Pafos, 2017).
- Member of the International Scientific Committee of the SPIE International Symposium on Remote Sensing (Edinburg, 2016).
- Member of the International Scientific Committee of the Third International Conference on Remote Sensing and Geoinformation of Environment (Pafos, 2015).
- Member of the International Scientific Committee of the Second International Conference on Remote Sensing and Geoinformation of Environment (Pafos, 2014).
- Co-organizer of a symposium on “Modelling and Computations in Atmospheric Sciences” in the framework of the “International Conference on Applied Mathematics” (Heraklion 2013).
- Member of the International Scientific Committee of the First International Conference on Remote Sensing and Geoinformation of Environment (Pafos, 2013).
- Member of the Organizing Committee of the BRIDGE Sustainable urban Planning Conference (Brussels, 2011).

- Member of the Scientific Committee of the International Conference EUROMED2010: Digital Heritage, organized by the Cyprus University of Technology (Limassol, 2010).
- Member of the Organizing Committee of the 3rd International Conference PALENC2010: Passive & Low Energy Cooling for the Built Environment (Rhodes, 2010).
- Member of the Jury Committee of the 8th Hellenic Geographical Conference organized by University of Athens (Athens, 2007).
- Member of the Jury Committee of the IEEE International Geoscience and Remote Sensing Symposium (IGARSS) 2007 (Barcelona, 2007).
- Member of the Scientific Committee of the 19th Enviroinfo: International Conference Informatics for Environmental Protection (Brno, 2005).
- Member of the Organizing Committee of the 3rd Symposium of the Hellenic Association of GIS, supporting also the preparation of the CD-ROM of Proceedings (Athens, 2004).
- Member of the Organizing Committee of the AGILE2004 (7th International Conference on Geographic Information Science), organized by FORTH (Heraklion, 2004).
- Member of the Scientific Committee of COST719 International Symposium on GIS and Remote Sensing for Environmental Applications (Volos, 2003).

Administrative Activities

- Head of the "Earth Observation Research and Applications in Urban and Natural Environment" Laboratory of the Institute of Applied and Computational Mathematics of FORTH (<http://rslab.gr>).
- Chairman of the Scientific Council of the Institute of Applied and Computational Mathematics of FORTH (2016 - 2018).
- Deputy member of the Election Committee for the position of the Director of the Institute of Astrophysics of FORTH (2018).
- FORTH Delegate at the Observatory of Environment and Public Health of the Municipality of Heraklion (2018 -).
- Representative of the Institute of Applied and Computational Mathematics of FORTH to a Committee of the General Secretariat of the Greek Government on the participation of the Research Community in the promotion of Sustainable Development Goals; contributing to the Voluntary National Review on the Implementation of 2030 Agenda of the UN for Sustainable Development (2018).
- Member of the Evaluation Committee for the promotion of a Researcher of the Institute for Astronomy, Astrophysics, Space Applications and Remote Sensing of the National Observatory of Athens (2018).
- Deputy member of a Faculty Election Committee in the Department of Geology of the Aristotle University of Thessaloniki (2018).
- Deputy member of a Faculty Election Committee in the Department of Forestry and Management of the Environment and Natural Resources of the Democritus University of Thrace (2018).
- Member of the Jury for the Research Prize of FORTH (2017).
- Member of a Faculty Election Committee in the Department of Geology of the Aristotle University of Thessaloniki (2017).
- Member of a Faculty Election Committee in the Department of Department of Forestry and Natural Environment of the Aristotle University of Thessaloniki (2017).
- Member of a Faculty Election Committee in the Department of Forestry and Management of the Environment and Natural Resources of the Democritus University of Thrace (2017).
- Member of the Evaluation Committee for the promotion of a Researcher of the Institute of Mediterranean Studies of FORTH (2017).
- Member of the Election Committee for the position of the Director of the Institute of Applied and Computational Mathematics of FORTH (2016).
- Elected member of the Scientific Council of the Institute of Applied and Computational Mathematics of FORTH (J2014 - 2016).

- Member of the Personnel Evaluation Committee of the Institute of Applied and Computational Mathematica of FORTH (2016).
- Member of the Personnel Evaluation Committee of the Institute of Applied and Computational Mathematica of FORTH (2013).

Other Activities

- Presentation in the Newspaper “Eleytherotypia” of the use of FORTH satellite ground receiving station for the near real time detection and monitoring of the toxic plumes caused by the bombing in Bagdad in April 2003 (12/4/2003).
- Participation in a Workshop organized by Environmental Modeling Group of ERCIM (Heraklion, 2004).
- Participation in INTERREG III C Workshop on Management and Development of islands (Heraklion, 2004).
- Participation in European Space Agency Workshops on “GMES: Global Monitoring for Environment and Security” (Athens, 2002) and on “How to Do Business with ESA” (Athens, 2004), as well as on “Space Industry” (Athens, 2004).
- Participation in the Consultation Meeting for the Work Programme 2005-06 of the Strategic Objective “Improving Risk Management” of IST (Brussels, 2004).
- Publication in SPIE Newsroom (<http://spie.org/x1004.xml>) of the article: *N. Chrysoulakis, H. Feidas, and M. Abrams, 2006. Digital elevation models generated from multispectral stereo satellite imagery (SPIE, 2006).*
- Participation in the Summer School Alpach 2006: “Monitoring of Natural Hazards from Space”. Member of the design team of the satellite mission MOSART: Monitoring of Surface Deformation in Active Tectonic Zones (Alpach, 2006).
- Member of the working group that prepared the description document of the Greek Technology and Science Initiatives (GTSI) for Space (Athens, 2007)
- Advisor for a stage at FORTH of the PhD candidate C, Alecu from the National Meteorological Service of Romania; topic: “Thermal infrared satellite signal retrieving as land surface temperature related to different land use/land cover units”, (Heraklion, 2007).
- Speaker in the 8th FORTH Workshop (Rethymno, 2007).
- Publication (with Prof. C. Cartalis) of a article in the Newspaper “Eleftherotypia” on the monitoring of the urban sprawl of Athens during the last 30 years (22/6/2008).
- Publication in ERCIM News of the article: *Flouri, E., Mitsoudis, D., Chrysoulakis, N., Diamandakis, E., Dougalis, V. A. and C. E. Synolakis, 2010. Mathematical Modelling of Tsunami Waves.* ERCIM News Special Theme: Computational Science/Scientific Computing Simulation & Modelling for Research and Industry (ERCIM, 2010).
- Participation in the FP7 Brokerage Event on “Marine Research Capacities in a global context” (Istanbul, 2010).
- Member of the Scientific Team of the Centre for Renewable Energy Sources developed guidelines on bioclimatic rehabilitation studies for open public spaces (April – July, 2011).
- Interviewed by the financial/business magazine “Hv-Ωv” on the innovative urban planning and design (April, 2011).
- Key speaker in the Information Day of the program “Bioclimatic rehabilitation of open public spaces”, held in Heraklion and interviewed on local media (Heraklion, 2010).
- Participation in the Coordinators Meeting, organized by DG-Research (Brussels, 2011).
- Presentation in the Newspaper “To Vima” of the results of a study on the land surface changes in the Municipalities of Attica, during the last 30 years, based on satellite observations (4/8/2011).

- Presentation of the GEOURBAN project in Russian Urban planning management (Управление развитием территории) journal, Issue 1, pp. 54 – 58 (Omsk, 2013).
- Rapporteur at Session “Community-based approached to Environmental Management” in the framework of workshop on "Fostering innovative dialogue between researchers and stakeholders to meet future challenges: Land, Soil, Desertification, Urban and Community-Based Environmental Management" (Brussels, 2013).
- Presentation of the BRIDGE Project in European Commission DG Environment News Alert Service ‘Science for Environmental Policy’, issue 334 (June 2013), as well as in FORTH Newsletter, Vol. 06 (August 2013).
- Speaker in the 11th Scientific Retreat of FORTH. Talk on “Urban Remote Sensing, recent projects and future prospects” (Heraklion, 2013).
- Speaker in the workshop on “REmote Sensing Technologies in Cultural Heritage”, organized by the Institute of Mediterranean Studies of FORTH. Talk on: “Earth Observation contribution to surface parameterization in atmospheric modelling” (Rethymnon, 2014).
- Participation in the international Symposium on “Copernicus- Sentinels Serving Society and the Environment”, jointly organized by the Hellenic Presidency of the Council of the European Union, the European Space Agency and the European Commission (Athens, 2014).
- Member of the Editorial Board of the Book: Understanding Urban Metabolism: A Tool for Urban Planning. Nektarios Chrysoulakis, Eduardo Castro and Eddy Moors (Eds). Routledge, Taylor & Francis ISBN 978-0-415-83511-4 (August 2014).
- Participation in the workshop “Nature Based Solutions and Renaturing Cities”, organized by DG-Research in Brussels, as an on-going multi-stakeholder dialogue which aims at contributing to developing a Research & Innovation agenda (2014 - 2020) on Nature-Based Solutions (December 2014).
- Participation in workshop on networking of the Greek Space Industry organized by the General Secretariat for Research and Technology, the Hellenic Space Technologies and Applications Cluster (si-Cluster), the Hellenic Association of Space Industry and the “Corallia” Unit of the Athena Research and Innovation Centre. Presentation of the relevant to Space - Earth Observation activities of the Institute of Applied and Computational Mathematics of FORTH (Athens, 2015).
- Participation in the 4th International Meeting of the EarthTemp Network on the theme of “exploring the complexity of urban surface temperatures”, organized by the University of Reading. Presentation of the URBANFLUXES Project (Reading, 2015).
- Participation in the 3rd GLOBTEMPERATURE Consultation Meeting, organized by the European Space Agency and the University of Reading Presentation of the URBANFLUXES Project (Reading, 2015).
- Interviewed by “International Innovation” on “Earth Observation for Urban Climate” <http://www.internationalinnovation.com/earth-observation-for-urban-climate/> (September 2015).
- Member of the EnCeladus hellenic Supersite, included in Geohazard Supersites and Natural Laboratories (GSNL) of Group of Earth Observations (GEO), <http://www.earthobservations.org/gsnl.php> (Νοέμβριος 2016).
- Host of the ECOPOTENTIAL General Assembly (May, 2017).
- Publication of the article “Copernicus Sentinels for urban planning: The SEN4RUS Project” in the Bulletin of the Hellenic Association of Rural & Surveying Engineers, Issue 232 (May 2017).
- Participation to the First Policy Workshop “From R&I Projects to EU Policies: Sustainable cities through nature-based solutions” and II Clustering Event, organized by the Directorate-General for Research and Innovation of the European Commission in Brussels (June 2017).

- Interviewed by “Skai Kritis” radio on the Urban Energy Balance in the city of Heraklion, the micrometeorological observations of FORTH and the local heat emission sources (February 2018).
- Presentation of the project URBANFLUXES, as a “Futuris” series episode by Euronews, <http://www.euronews.com/2018/03/05/heat-produced-in-our-cities-is-affecting-human-mortality> (March 2018).
- Interviewed by the local “TV-Creta” on the URBANFLUXES results, with emphasis on the city of Heraklion (March 2018).
- Interviewed by the local “Kriti-TV” on the Observatory of Environment and Public Health in the area of Heraklion (April 2018).
- Publication of the project URBANFLUXES - Result In Brief by the Community Research and Development Service (CORDIS) of the European Commission, https://cordis.europa.eu/result/rcn/229057_en.html (May 2018).
- Participation to the practical conference “Urban Planning and Management, Environment quality and Entrepreneurial Climate” organized by GRAD Inform; presentation of SEN4RUS and URBANFLUXES projects (Omsk, 2018).
- Rapporteur of the Session “Benefits of ecosystem restoration”, held in the framework of HORIZON2020 European Dialogue and clustering action Transforming cities, enhancing wellbeing: innovating with nature-based solutions (A Coruña, 2018).
- Participation to the workshop on the EuroGEOSS initiative, the European component of GEOSS (Global Earth Observation Systems of Systems), organized by the Directorate-General for Research and Innovation of the European Commission in Brussels. Submission of an Expression of Intent for the urban component of EuroGEOSS (June 2018).
- Participation to the Mediterranean Regional Information Network (MedRIN) of NASA, aiming to serve as a liaison between land cover/use change remote sensing scientists and stakeholders in the Mediterranean region, as well as to support tackling regional and local challenges, as described by the United Nations’ Sustainable Development Goals (July 2018).
- Interviewed by the local “Kriti-TV” on the potential of satellite remote sensing in monitoring of urban and natural environment, in the framework of 38th Annual EARSeL Symposium: “Earth Observation Supporting Sustainability Research”, held in Chania (July 2018).
- Interviewed by the newspaper “Nea Kriti” on the potential of satellite remote sensing to support the mitigation of natural hazards, as well as the damage assessment (July 2018).
- Presentation by the newspaper “Nea Kriti” of the Thermal Infrared UAV campaign that was organized by FORTH and Norwegian University of Life Sciences (NMBU) in Heraklion (July 2018).
- Interviewed by the local “Kriti-TV” on the of the Thermal Infrared UAV campaign that was organized by FORTH and NMBU in Heraklion (July 2018).
- Interviewed by the local “TV-Creta” on the of the Thermal Infrared UAV campaign that was organized by FORTH and NMBU in Heraklion (July 2018).
- Interviewed by the local “TV-Creta” on the burnt area mapping that was produced by the Remote Sensing Lab, after the recent wild fires in the areas of Attica and Chania (August 2018).
- Presentation by the newspaper “Naytemporiki” of the important researching activities of the Remote Sensing Lab related to urban environment, urban warming, climate and climate change at local and global scales, as well as to mapping of land and coastal marine ecosystems (October 2018).

Editor of Books, Journals and Conference Proceedings

- A1. **Chrysoulakis N.** and Parlow, E. (Guest Eds)., 2018. Remote Sensing of Urban Energy and CO₂ Fluxes. A special issue of *Remote Sensing*. Section: Land Surface Fluxes. http://www.mdpi.com/journal/remotesensing/special_issues/urban_energy
- A2. Erbertseder, T., **Chrysoulakis, N.** and Zhang, Y. (Eds)., 2018. Remote Sensing Technologies and Applications in Urban Environments III. Proceedings Volumes from SPIE Remote Sensing. Proc. of SPIE Vol. 10793, © 2018 SPIE.
- A3. Erbertseder, T., **Chrysoulakis, N.**, Zhang, Y. and Heldens, W. (Eds)., 2017. Remote Sensing Technologies and Applications in Urban Environments II. Proceedings Volumes from SPIE Remote Sensing. Proc. of SPIE Vol. 10431, © 2017 SPIE · CCC code: 0277-786X/17/\$18.
- A4. Erbertseder, T., Esch, T. and **Chrysoulakis, N.**, (Eds)., 2016. Remote Sensing Technologies and Applications in Urban Environments. Proceedings Volumes from SPIE Remote Sensing. Proc. of SPIE Vol. 10008, © 2016 SPIE · CCC code: 0277-786X/16/\$18.
- A5. **Chrysoulakis, N.**, Castro, E. A. and Moors, E. J. (Eds)., 2015. Understanding Urban Metabolism: A Tool for Urban Planning. Routledge, Taylor & Francis, London. ISBN 9780415835114.

Book Chapters

- B1. Mitraka, Z. and **Chrysoulakis, N.**, 2018. Earth Observation for Urban Climate Monitoring: Surface Cover and Land Surface Temperature. In: Rustamov, R. B., Hasanova, S., Zeynalova M.H (Eds). Multi-purposeful Application of Geospatial Data. Chapter 7. InTech., pp. 125 - 145.
- B2. Landier, L., Lauret, N., Yin, T., Al Bitar, A., Gastellu-Etchegorry, J-P., Feigenwinter, C., Parlow, E., Mitraka, Z. and **Chrysoulakis, N.**, 2016. Remote Sensing Studies of Urban Canopies: 3D Radiative Transfer Modeling. In: Ergen, M. (Ed)., 2016. Sustainable Urbanization. Environmental Sciences. InTech, Rijeka, Croatia. ISBN 978-953-51-2653-9, pp. 227 - 247.
- B3. **Chrysoulakis, N.** and Grimmond, C.S.B., 2016. Understanding and reducing the anthropogenic heat emission. In: Santamouris, M. and Kolokotsa, D. (Eds)., 2016. Urban Climate Mitigation Techniques. Routledge, Taylor & Francis, London. ISBN 978-0-415-71213-2, pp. 27 - 39.
- B4. **Chrysoulakis, N.**, Feigenwinter, C., Triantakou, D., Penyevskiy, I., Tal, A., Parlow, E., Fleishman, G., Düzgün, S., Esch, T. and Marconcini, M., 2016. A Conceptual List of Indicators for Urban Planning and Management Based on Earth Observation. In: Etingoff, K. (Ed)., 2016. Urban Ecology. Strategies for Green Infrastructure and Land Use. Apple Academic Press, Inc., Oakville, Canada. ISBN-13: 978-1-77188-282-8, pp. 285 - 313.
- B5. **Chrysoulakis, N.**, 2015. The BRIDGE approach. In: Chrysoulakis, N., Castro, E. A. and Moors, E. J. (Eds)., 2015. Understanding Urban Metabolism: A Tool for Urban Planning. Routledge, Taylor & Francis, London. ISBN 9780415835114, pp. 18 - 26.
- B6. Cartalis, C., Stathopoulou, M., Mitraka, Z. and **Chrysoulakis, N.**, 2015. Use of Earth Observation to support urban modelling parameterization in BRIDGE. In: Chrysoulakis, N., Castro, E. A. and Moors, E. J. (Eds)., 2015. Understanding Urban Metabolism: A Tool for Urban Planning. Routledge, Taylor & Francis, London. ISBN 9780415835114, pp. 58 - 68.
- B7. Mitraka, Z., Diamantakis, M. and **Chrysoulakis, N.**, 2015. The BRIDGE DSS. In: Chrysoulakis, N., Castro, E. A. and Moors, E. J. (Eds)., 2015. Understanding Urban

- Metabolism: A Tool for Urban Planning. Routledge, Taylor & Francis, London. ISBN 9780415835114, pp. 175 - 184.
- B8. **Chrysoulakis, N.**, Castro, E. A. and Moors, E. J. (Eds.), 2015. Conclusions. In: Chrysoulakis, N., Castro, E. A. and Moors, E. J. (Eds.), 2015. Understanding Urban Metabolism: A Tool for Urban Planning. Routledge, Taylor & Francis, London. ISBN 9780415835114, pp. 209 - 212.
- B9. Mitraka, Z. and **Chrysoulakis, N.**, 2012. Satellite based estimation of urban surface emissivity with the use of sub-pixel classification techniques. In: C.G. Helmis and P.T. Nastos (eds.): Advances in Meteorology, Climatology and Atmospheric Physics, Springer Atmospheric Sciences., Springer-Verlag, Berlin Heidelberg (doi: 10.1007/978-3-642-29172-2_127), pp. 231 - 237.
- B10. Benas, N. and **Chrysoulakis, N.**, 2012. Comparative analysis of MERIS/AATSR synergy algorithm aerosol retrievals vs. MODIS aerosol product and validation against AERONET observations. In: C.G. Helmis and P.T. Nastos (eds.): Advances in Meteorology, Climatology and Atmospheric Physics, Springer Atmospheric Sciences., Springer-Verlag, Berlin Heidelberg (doi: 10.1007/978-3-642-29172-2_127), pp. 911 - 916.
- B11. Borrego, C., Cascão, P., Lopes, M., Amorim, J. H., Tavares, R., Rodrigues, V., Martins, J., Miranda, A. I. and **Chrysoulakis, N.**, 2011. Impact of urban planning *alternatives* on air quality: URBAIR model application. In: Brebbia C. A., Longhurst, J. W. S., Popov, V. (eds): WIT Transactions on Ecology and the Environment, Vol 147, WIT Press, ISSN (on-line) 1743-3541, United Kingdom.
- B12. Lipakis, M., **Chrysoulakis, N.** and Kamarianakis, Y. 2008. Shoreline extraction using satellite imagery. In: Pranzini, E. and Wetzel, E. (eds): Beach Erosion Monitoring. Results from BEACHMED/e-OpTIMAL Project (Optimization des Techniques Intégrées de Monitoring Appliquées aux Littoraux) INTERREG IIIC South. Nuova Grafica Fiorentina, Florence, Italy, pp. 81 – 95.
- B13. **Chrysoulakis, N.**, Prastacos, P., and Cartalis, C., 2004. Development of a Decision Support Tool for Technological Risk Management with Remote Sensing and GIS. In: Hilty, L., Seifert, E. and Treibert, R. (eds.): Information Systems for Sustainable Development. Idea Group, Hershey PA 17033, USA, pp. 342 - 353.

Publications in International Peer-reviewed Journals

- C1. Hummel, C., Poursanidis, D., Orenstein, D., Elliott, M., Adamescu, M. C., Cazacu, C., Ziv, G., **Chrysoulakis, N.**, Vvan der Meer, J. and Hummel, H., 2019. Protected Area management: fusion and confusion with the Ecosystem Services approach. *Science of the Total Environment*, **651**, 2432 - 2443.
- C2. **Chrysoulakis, N.**, Grimmond, S., Feigenwinter, C., Lindberg, F., Gastellu-Etchegorry, J.P., Marconcini, M., Mitraka, Z., Stagakis, S., Crawford, B., Olofson, F., Landier, L., Morrison, W. and Parlow, E., 2018. Urban energy exchanges monitoring from space. *Scientific Reports*, **8**, 11498.
- C3. **Chrysoulakis, N.**, Mitraka, Z. and Gorelick, N., 2018. Exploiting satellite observations for global surface albedo trends monitoring. *Theoretical and Applied Climatology*, doi: 10.1007/s00704-018-2663-6.
- C4. Beloconi, A., **Chrysoulakis, N.**, Lyapustin, A., Utzinger, J. and Vounatsou, P., 2018. Bayesian geostatistical modelling of PM10 and PM2.5 surface level concentrations in Europe using high-resolution satellite-derived products. *Environment International*, **121**, 57 - 70.
- C5. Pasetto, D., Arenas-Castro, S., Bustamante, J., Casagrandi, R., **Chrysoulakis, N.**, Cord, A. F., Dittrich, A., Domingo-Marimon, C., El Serafy, G., Karnieli, A., Kordelas, G. A., Manakos, I., Mari, L., Monteiro, A., Palazzi, E., Poursanidis, D., Rinaldo, A., Terzago, S., Ziemba, A. and Ziv, G., 2018. Integration of satellite remote sensing data in ecosystem modelling at local scales: Practices and trends. *Methods in Ecology and Evolution*, **9**, 1810 - 1821.
- C6. Feigenwinter, C., Vogt, R., Parlow, E., Lindberg, F., Marconcini, M., Del Frate, F. and **Chrysoulakis, N.**, 2018. Spatial Distribution of Sensible and Latent Heat Flux in the City of Basel (Switzerland). *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **11**, 2717 - 2723.
- C7. Landier, L., Gastellu-Etchegorry, J. P., Al Bitar, A., Chavanon, E., Lauret, N., Feigenwinter, C., Mitraka, Z. and **Chrysoulakis, N.**, 2018. Calibration of urban canopies albedo and 3D shortwave radiative budget using remote-sensing data and the DART model. *European Journal of Remote Sensing*, **51**, 739 - 753.
- C8. Traganos, D. Poursanidis, D., Aggarwal, B., **Chrysoulakis, N.** and Reinartz, P., 2018. Estimating Satellite-Derived Bathymetry (SDB) with the Google Earth Engine and Sentinel-2. *Remote Sensing*, **10**, 859.
- C9. Panagiotakis, E., **Chrysoulakis, N.**, Charalampopoulou, V. and Poursanidis, D., 2018. Validation of Pleiades Tri-Stereo DSM in Urban Areas. *ISPRS International Journal of Geo-Information*, **7**, 118.
- C10. Traganos, D., Aggarwal, B., Poursanidis, D., Topouzelis, K., Chrysoulakis, N. and Reinartz, P., 2018. Towards Global-Scale Seagrass Mapping and Monitoring Using Sentinel-2 on Google Earth Engine: The Case Study of the Aegean and Ionian Seas. *Remote Sensing*, **10**, 1227.
- C11. Poursanidis, D., Topouzelis, K. and **Chrysoulakis, N.**, 2018. Mapping coastal marine habitats and delineating the deep limits of the Neptune's seagrass meadows using very high resolution Earth observation data. *International Journal of Remote Sensing*, <https://doi.org/10.1080/01431161.2018.1490974>
- C12. Parastatidis, D., Mitraka, Z., **Chrysoulakis, N.** and Abrams, M., 2017. Online Global Land Surface Temperature Estimation from Landsat. *Remote Sensing*, **9**, 1208; doi:10.3390/rs9121208.
- C13. Gastellu-Etchegorry, J. P., Lauret, N., Yin, T., Landier, L., Kallel, A., Malenovský, Z., Bitar, A. A., Aval, J., Benhmida, S., Qi, J., Medjdoub, G., Guilleux, J., Chavanon, E., Cook, B., Morton, D., **Chrysoulakis, N.** and Mitraka, Z., 2017. DART: Recent Advances in Remote Sensing Data Modeling With Atmosphere, Polarization, and Chlorophyll Fluorescence. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **10**, 2640 - 2649.

- C14. Benas, N., **Chrysoulakis, N.** and Cartalis, C. 2017. Trends of urban surface temperature and heat island characteristics in the Mediterranean. *Theoretical and Applied Climatology*, **130**, 807 - 816.
- C15. Poursanidis, D. and **Chrysoulakis, N.**, 2017. Remote Sensing, natural hazards and the contribution of ESA Sentinels missions. *Remote Sensing Applications: Society and Environment*, **6**, 25 - 38.
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Conference Abstracts

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