

Olga Sykioti, M.Sc., M.Sc., Ph.D.

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Personal Information

Date of birth: February 15, 1967
Place of Birth: Athens, Greece

Research interests

- Hyperspectral and microwave imaging in:
- Monitoring natural ecosystems
 - Geological and mineral mapping
 - Ground deformation/tectonics
 - Monitoring of the marine environment

Languages

English, French, Spanish, (fluent) Hindi (very good)
Greek (mother tongue)

Academic Studies

1994	PhD in Remote Sensing and Geosciences -First Class Honours-	Univ. Pierre & Marie Curie (Paris VI) Laboratoire de Géologie et Télédétection / Laboratoire de Géologie Appliquée Paris, France
1991	MSc in Hydrology, Geostatistics and Geochemistry -First Class Honours-	Univ. Pierre & Marie Curie (Paris VI) Laboratoire de Géologie Appliquée / Ecole des Mines de Fontainebleau Paris, France
1990	MSc in Remote Sensing -First Class Honours-	Univ. Pierre & Marie Curie (Paris VI) Laboratoire de Géologie et Télédétection Paris, France
1988	BSc in Geology -First Class Honours-	Faculty of Geology and Geoenvironment, National and Kapodistrian University of Athens

1984	High School -First Class Honours-	Arsakeio-Tositseio (Society for the Promotion of Education and Learning)
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Academic awards and Fellowships

2009	Research Fulbright Fellowship in USA	
1991-1994	MESR fellowship for PhD research (Allocation de recherche – Ministère de l'Enseignement Supérieur et de la Recherche), Paris (France).	
1990	G. Papastamatiou Award from IGME (Institute of Geology and Mineral Exploration) for obtaining First Class Honours in B.Sc. degree.	
1989-1992	Academy of Athens Fellowship for obtaining First Class Honours in B.Sc. degree	

Professional Experience

2011-...	Institute for Astronomy, Astrophysics, Space Applications and Remote Sensing National Observatory of Athens	Associate Researcher
2006-2011	Institute for Space Applications and Remote Sensing National Observatory of Athens	Assistant Researcher
2001-2005	Institute for Space Applications and Remote Sensing National Observatory of Athens	Research support specialist
1999-2000	Institute for Space Applications and Remote Sensing National Observatory of Athens	external collaboration
1997-2000	Technical Chamber of Greece	technical consultant on contract
1995-1999	Private Sector	Scientific/technical consultant on contract

Research projects

RP.28 2015	"PAPRIKA - enhancement of a forest PrimAry PRoductivity monitoring system in greece using Venùs satellite ImAgerY" Research Announcement for Venùs mission" (<i>Vegetation and Environment monitoring on a New Micro Satellite</i> , a Joint Israeli – French Micro-Spacecraft for Earth Observation. CNES-ISI. <i>(under evaluation)</i>)	
RP.27 2015	"Analyse de surfaces continentales altérées à l'aide de données hyper et multispectrales dans le SWIR et l'IR thermique - Application à l'exploration géothermique en zone volcanique" (Programme National de Télédétection Spatiale, Institut national des sciences de l'Univers, France). <i>(under evaluation)</i>	
RP.26 2015	"GAIA MUSICI : Geothermal Area Investigation using Advanced MULTIspectral Satellite Imagery Constrained by Insitu observations" (call PHC Jules Verne 2016 France-Iceland, Domaine: 3 - Sciences de la terre et de l'univers, Espace, Section: Physique et Chimie de la Terre, France). <i>(under evaluation)</i>	
RP.25 2015	"GAMMI : Geothermal Areas Monitoring using Multispectral Imagery" (call PHC Jules Verne 2016 France-Iceland, Domaine: 3 - Sciences de la terre et de l'univers, Espace, Section: Physique et Chimie de la Terre, France). <i>(under evaluation)</i>	

RP.24 2012-15	“HSI - Advancing Hyperspectral Image Processing for Planetary Mineral Exploration and Thematic Mapping: the case of Planet Mars” “Excellence in Science”. National Operational Programmes in the framework of “Education and Lifelong Learning”, ESPA 2007-2013. Ministry of Development.
RP.23 2012-15	“PROTEAS –Advanced Space Applications for the Universe, Space and Earth exploration”. Operational Development Programmes – KRIPIS, Greek Ministry of Education.
RP.22 2012-15	“LAVMO - Development of a landslide hazard model using Remote Sensing and InSAR methods”. Programme THALIS, Ministry of Education, Greece.
RP.21 2013-15	“ESA SAPS - Design, Implementation and Maintenance of a Publication System for the ESAC Science Archives” ESA ITT AO7335.
RP.20 2012-14	“Development of a system for satellite monitoring and assessment of the primary productivity of the forests in the National Park of North Pindos in a GIS environment”. Project co-financed by the European Union (European Regional Development Fund- ERDF) and Greek national funds through the Operational Program “THESSALY- MAINLAND GREECE AND EPIRUS-2007-2013” of the National Strategic Reference Framework (NSRF 2007-2013).
RP.19 2011-...	“Correlation of salinity variations from SMOS data in the Aegean Sea (Greece) to integrated time series measurements of 137Cs activity concentrations: Mathematical modeling of pollution behavior and dispersion”. ESA AO Category-1 Project. Application domain: Oceanography - Hazards.
RP.18 2010-14	“Introducing Routers for Space Internetworking-Space Data Routers” FP7 Space Collaborative Project, SPA.2010.2.1-03 Exploitation of science and exploration data, FP7-SPACE-2010-1.
RP.17 2014-...	“Landslide Vulnerability” MTH0519 TerraSAR-X project.
RP.16 2009-...	“QuBIES Cosmo-Skymed-Quantification of backscatter and interferometric Cosmo-Skymed signal response due to landscape changes in environmentally sensitive areas”. Announcement of Opportunity Programme Cosmo-Skymed (ASI). Area “Land Use/Land Cover Mapping”- “Forestry”
RP.15 2009	“Land degradation assessment through Imaging Spectroscopy” Fulbright Research Grant to O. Sykioti
RP.14 2008-10	“HyMars - Development and application of advanced HIS techniques to OMEGA data (ESA/Mars Express)”. IAASARS/NOA internal funding project
RP.13 2008-10	“Synergy between satellite SAR systems in X, L and C frequency for the study of small-scale ground movements. Case study: Nisyros island, Greece”. IAASARS/NOA internal funding project.
RP.12 2006-...	“HypED - Study of Ecosystem Dynamics using CHRIS/PROBA Hyperspectral data”. ESA AO Category-1 Project, Application domain: Renewable Resources – Land Environment.
RP.11 2007-09	“PROTIPA: Advanced Remote Sensing Technologies for Monitoring and Protecting Forest and other Land Ecosystems”. General Secretariat of Research and Technology, Ministry of Development. Operational Programme «Competitiveness» (EPAN), Programme «Human Networks of Research and Technological Training – 2nd call».
RP.10 2005-08	“ECOSAT – Study of ecosystem dynamics of the National Park of North Pindos using satellite imagery”. Programme PYTHAGORAS II / Ministry of National Education and Religious Affairs.
RP.9 2003-06	“FIREMENTOR: Operational System of Design and Decision Making of the Forest Fire Management”. EPAN – 3 RD Cofinanced Development Operational Programmes – Competitiveness, GSRT.

RP.8 2003-06	“SARPerS – Detection of Active Small-Scale Surface Deformation in Greece using Multitemporal InSAR and Permanent Scatterers techniques”. ESA Announcement of Opportunity project.
RP.7 2002-05	“Study of an Oil Spill Management System based on Satellite Tehnology”. Greece-Italy Bilateral Research and Technological Programmes 2001-2003, Ministry of Development/GSRT.
RP.6 2002-04	“Modelling and Correction of Atmospheric and Orbital Artefacts in InSAR data for the study of Seismic and Volcanic Hazards”. Greece-France Bilateral Research and Technological Programmes 2002-2004, Ministry of Development/GSRT.
RP.5 1999-2001	“Monitoring of the seismic activity of Nisyros island using Radar SAR Interferometry techniques”. ESA Cat-1 project.
RP.4 1999-01	“WASSER: Utilisation of Groundwater Desalination and Wastewater Reuse in the Water Supply of Seasonally-Stressed Regions”. European Commission-DG XII-D, Environment & Climate Programme, Contract No. ENV4-CT97-0459, National Observatory of Athens.
RP.3 1991-94	“Study of Groundwater circulations in a kartstic environment using satellite imagery and DTMs (Verneuil-sur-Avre, France)”. Bilateral Collaboration Paris VI (UPMC)-(J. Chorowicz, B. Deffontaines) and the Société Anonyme de Gestion des Eaux de Paris (SAGEP) (France).
RP.2 1991-94	“Study of Active Water Percolation in large-scale Fracture Zones using satellite imagery (Vittel, France)”. Collaborative project Paris VI (UPMC)– National Institute of Agronomic Research (INRA), Nestle S.A (France).
RP.1 1991	“R.E.M.M.I. – Study of the relation between Water and Magma in Intertropical Active Volcanic Zones” French national funded collaboration programme.

Furthemore, O. Sykioti has participated in the submission of 21 research projects that were not finally selected for financing.

Selected Publications

Mapping tree species distribution in a mixed forest through linear unmixing of CHRIS/PROBA imagery, Stagakis, S., Vanikiotis, T., Sykioti, O., *ISPRS Journal of Photogrammetry and Remote Sensing*, 119, 79-89, 2016.

Remote radiological assessment in the marine environment: A pilot study based on Cs-137 measurements and satellite observations in the Aegean Sea, Mavrokefalou G., Florou, H. Sykioti, O., *HNPS 2016:25th Symposium of the Hellenic Nuclear Physics Society*, 3-4 June 2016, Athens, Greece.

Hydrothermal Alteration Zones Detection in Limnos Island through the application of Remote Sensing, Anifadi, A., Parcharidis, Is., Sykioti, O., *Bulletin of the Geological Society of Greece*, vol. XLVIII, 2016, Proc. 14th Intern. Conference, Thessaloniki, May 2016.

Monitoring drought effects on Mediteranean conifer forests using SPOT-VEGETATION NDVI and NDWI timeseries, M. Karamihalaki, S. Stagakis, O. Sykioti, , *Living Planet Symposium 9-13 May 2016*.

Lava flows mapping and changes detection in the Mt. Etna Volcano between 2009-2012 using Hyperion hyperspectral images, C. Karagiannopoulou, O. Sykioti, I. Parcharidis, P. Briole, *Proc. Living Planet Symposium 9-13 May 2016*.

Spatially subtle ground deformations due to landslides, geophysical procedures and man-made activities, exploiting of a big number of multitemporal interferometry datasets, in SW Gulf of Corinth (Greece), P. Elias, O. Sykioti, S. Neokosmidis, P. Briole, *Proc. Living Planet Symposium 9-13 May 2016*.

Integration of Earth observation satellite data and real time ^{137}Cs measurements in the Greek marine environment to GIS for advances in radiological remote control, G.Mavrokefalou, H. Florou, O. Sykioti, I. Parcharidis, Proc. Living Planet Symposium 9-13 May 2016.

Regional climate network analysis from irregularly sampled satellite Data, M. Wiedermann, O. Sykioti, C. Papadimitriou, G. Balasis, J. Kurths, R.V. Donner, EGU General Assembly 2016, Vienna, 17-22 April 2016, Geophysical Research Abstracts Vol. 18, EGU2016-7639, 2016.

Reconstructing regional climate networks from irregularly sampled satellite data, Wiederman M., Donner, R.V., Sykioti, O., Papadimitriou, C., Kurths, J., EGU General Assembly 2015, Vienna, 12-17 April 2015, Geophysical Research Abstracts Vol. 17, EGU2015-9123-2.

Simulation of Sentinel-2 image from AISA EAGLE and HAWK Hyperspectral imagery in a lakeshore vegetation environment, Stratoulas, D., Balzter, H., Sykioti, O., Zlinszky, A., Tóth, V.R., *Sensors*, 15, 22956-22969, 2015.

Multi-temporal intensity and coherence analysis of SAR images for land cover change detection on the Island of Crete. Nikolaeva E., Sykioti O., Elias P., Kontoes C., SPIE Remote Sensing 2015, Toulouse (France), 21-24 September 2015, Proc. SPIE 9642, SAR Image Analysis, Modeling and Techniques XV, 964208, October 15, 2015.

Monitoring of vegetation ecosystems in Greece using vegetation indices time series, Karamihalaki, M., Sykioti, O., Stagakis, S., Kyparissis, A., Proceedings of the 10th International Congress of the Hellenic Geographical Society, 22-24 October 2014, Thessaloniki, Greece.

Landslides modeling and monitoring by exploiting satellite SAR acquisitions. The LAVMO project, Elias P., Neokosmidis S, Sykioti O., Kavoura K., Sabatakakis N., Drakatos G., Anastassopoulos V. and Briole P., Geological Society of Greece, 13 May 2015.

Landslide modeling using information synthesis methods, Koukiou G., Kourtinos G., Kavoura K., Elias P., Sykioti O., Sabatakakis N., Anastassopoulos V., Geological Society of Greece, 13 May 2015.

sCASE: A primary productivity monitoring system for the forests of North Pindus National Park (Epirus,Greece), S. Stagakis, N. Markos, T. Vanikiotis, A. Tzotsos, O. Sykioti, A. Kyparissis, *European Journal of Remote Sensing*, 48, 223-243, 2015.

Joint Spectral Unmixing and Clustering for identifying homogenous regions in hyperspectral images, Mylona E.A., Sykioti, O.A., Koutroumbas, D.K., Rontogiannis A.A., 2015 IEEE IGARSS, Milan (Italy), 26-31 July 2015..

A new sparsity aware feature selection method for hyperspectral image clustering, Xenaki S., Koutroumbas K., Rontogiannis A., Sykioti, O., 2015 IEEE IGARSS, Milan (Italy), 26-31 July 2015.

Landslides modeling and monitoring by exploiting satellite SAR acquisitions, optical imagery and in-situ measurements in Greece, Elias P., Sykioti O., Neokosmidis S., Paronis D., Kavoura K., Sabatakakis N., Chousianitis K., Drakatos G., Anastassopoulos V., Briole P., 9th International Workshop Fringe 2015, ESA Frascati, 23 - 27 March 2015.

Tracking seasonal changes of leaf and canopy light use efficiency in a *Phlomis fruticosa* Mediterranean ecosystem using field measurements and multi-angular satellite hyperspectral imagery, Stagakis S., Markos N., Sykioti O., Kyparissis A., *ISPRS Journal of Photogrammetry and Remote Sensing*, 97, 138–151, 2014.

sCASE: A primary productivity monitoring system for the forests of North Pindus National Park (Epirus, Greece), Stagakis S., Markos N., Vanikiotis T., Tzotsos A., Sykioti O., Kyparissis A., ForestSAT 2014, Riva del Garda (Italy), 4-7 November 2014.

Correlations of salinity, temperature and ocean colour variations from SMOS and MODIS satellite data in the Eastern Mediterranean and Black Sea for creating an inventory data base as to be compared to conservative radionuclides for remote recording under routine and case, Sykioti O., Florou H., Mavrokefalou G., N. Evangeliou, 10TH International Congress of the Hellenic Geographical Society, Thessaloniki (Greece), , 22-24 October 2014.

Landslides modelling and monitoring by exploiting satellite SAR acquisitions. The LAVMO project", Elias, P., Neokosmidis, S., Sykioti, O., Kavoura, K., Sabatakakis, N., Drakatos, G., Anastasopoulos, V., Briole, P., Annual Meeting of the Geological Society of Greece, Athens, 13 May 2015

Monitoring of vegetation ecosystems in Greece using vegetation indices time series, Karamihalaki M.,

Sykioti O., Stagakis S., Kyparissis A., 10th International Congress of the Hellenic Geographical Society, Thessaloniki (Greece), 22-24 October 2014.

Remote radiological assessment in the marine environment: SMOS and MODIS observations combined to ¹³⁷Cs activity concentrations in the Aegean Sea – Greece, Florou H., Sykioti O., Evangeliou N., Mavrokefalou G., Tzempelikou E., 3rd International Conference on Radioecology and Environmental Radioactivity, Barcelona (Spain), 7-12 September 2014.

A satellite monitoring system for the estimation of primary productivity of the forests of North Pindus National Park in a GIS environment, Stagakis S., Markos N., Vanikiotis S., Tzotsos A., Sykioti O., Kyparissis A., 1st International Geomatics Applications “GEOMAPPLICA” Conference, Skiathos island (Greece), 8-11 September 2014.

A Layered sparse adaptive possibilistic approach for hyperspectral image clustering, Xenaki I., Koutroumbas K., Rontogiannis A., Sykioti, O., 2014 IEEE IGARSS (International Geoscience & Remote Sensing Symposium), Quebec (Canada), 13-17 July 2014.

Simulation of Sentinel-2 image from AISA Eagle and Hawk hyperspectral imagery in a lakeshore vegetation environment, Stratoulis, D., Balzter, H., Sykioti, O., Zlinszky, A. and Tóth, V.R. (2014). Proceedings of the ESA Sentinel-2 for Science Workshop, ESA-ESRIN, Frascati (Italy), 20-22 May 2014, special publication SP-726, 2014.

Enhancing deep space communications for scientific data transmission and exploitation, Case study: OMEGA/Mars Express, Sykioti O., Daglis I.A., Rontogiannis A., Tsaoussidis V., Diamantopoulos S., NETSPACE – Networking technologies for efficient SPACE data dissemination and exploitation Workshop, Athens (Greece), 18-19 February 2014.

On the role of advanced data routing protocols in enhancing the characterization and understanding of magnetospheric processes, A. Anastasiadis A. Daglis, I.A., Balasis G., Papadimitriou C., Sandberg I., Keramitsoglou I., Paronis D., Rontogiannis, A., Sykioti O., Tsigkanos A., NETSPACE – Networking technologies for efficient SPACE data dissemination and exploitation Workshop Workshop, Athens (Greece), 18-19 February 2014.

Enhancing space data exploitation through DTN-based data transmission protocols, I.A. Daglis, A.A. Rontogiannis, O. Sykioti, I. Keramitsoglou, D. Paronis, A. Anastasiadis, G. Balasis, I. Sandberg, and A. Tsigkanos, NETSPACE – Networking technologies for efficient SPACE data dissemination and exploitation Workshop, Athens (Greece), 18-19 February 2014.

Using Space-Data Routers for the timely and targeted downloading of Land Surface Temperature data to local users, Keramitsoglou I., Daglis, I.A., Rontogiannis A., Anastasiadis A., Balasis G., Paronis D., Sykioti O., Tsaoussidis V., Diamantopoulos S., NETSPACE – Networking technologies for efficient SPACE data dissemination and exploitation Workshop, Athens (Greece), 18-19 February 2014.

A fast variational Bayes algorithm for sparse semi-supervised unmixing of OMEGA/Mars Express data, Rontogiannis, A., Themelis, K., Sykioti, O., Koutroumbas, K., IEEE WHISPERS: 5th Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing, Gainesville Florida USA, 25-28 June 2013.

Estimating light use efficiency of a pine and a beech forest from leaf to ecosystem scale using the photochemical reflectance index, Vanikiotis T., Markos N., Stagakis S, Tzotsos A., Sykioti O., Kyparissis A. ESA Living Planet Symposium, Edinburgh (Scotland), September 2013, ESA SP-722, 2013.

On the unmixing of MEx/OMEGA hyperspectral data, Themelis, K.E., Schmidt, F., Sykioti, O., Rontogiannis, A.A., Koutroumbas, K.D., Daglis, I., *Planetary and Space Science*, 68, 34-41, 2012.

Space Mission Characteristics and Requirements to be Addressed by Space-Data Router Enhancement of Space-Data Exploitation, Daglis I.A., Sykioti O., Anastasiadis A., Balasis G., Keramitsoglou I., Paronis D., Rontogiannis A. and Diamantopoulos S., *Wired/Wireless Internet Communication Lecture Notes in Computer Science*, 7277, pp 366-373, 2012.

Band Depth analysis of CHRIS/PROBA data for the study of a Mediterranean natural ecosystem. Correlations with Leaf optical properties and ecophysiological parameters, Sykioti, O., Paronis, D., Stagakis, S., Kyparissis, A., *Remote Sensing of Environment*, 115, 752–766, 2011

Monitoring canopy biophysical and biochemical parameters in ecosystem scale using satellite hyperspectral imagery: An application on a *Phlomis fruticosa* Mediterranean ecosystem using

multiangular CHRIS/PROBA observations, Stagakis, S., Markos, N., Sykioti, O., Kyparissis, A., *Remote Sensing of Environment*, 114, 977–994, 2010.

Spectroscopic analysis of a Mediterranean ecosystem using CHRIS/PROBA, in-situ leaf spectra and plant measurements, Sykioti, O., Paronis, D., Kyparissis, A., Stagakis, S., ESA Hyperspectral Workshop, 17-19 March 2010, ESA ESRIN Frascati (Italy), 2010.

Effect of aerosols on narrowband indices and band depths from CHRIS/PROBA: Case study on a *Phlomis fruticosa* ecosystem, Paronis, D., Sykioti, O., Kyparissis, A., ESA Hyperspectral Workshop, 17-19 March 2010, ESA ESRIN Frascati (Italy), 2010.

Synergy of ASAR and RADARSAT-2 ultra-fine acquisitions for ground deformation monitoring by means of DInSAR and PSI, Elias, P., Briole, P., Sykioti, O., ESA Living Planet Symposium, Bergen (Norway), 28 June- 2 July 2010.

Band depth analysis of absorption features from CHRIS/PROBA for vegetation analysis, Sykioti, O., Paronis, D., Kyparissis, A., Stagakis, S., ESA Living Planet Symposium, Bergen (Norway), 28 June- 2 July 2010.

On the unmixing of MEX/OMEGA hyperspectral data, Themelis, K., Rontogiannis, A.A., Sykioti, O., Koutroumbas, K., Daglis, I.A., Schmidt, F., European Planetary Science Congress 2010, Planetary Mapping and Remote Sensing, 19-24 September 2010, Rome (Italy), in CD, 2010.

PALSAR/ALOS Interferometry in the Gulf of Corinth and Patras (Greece). Comparison with ASAR/ENVISAT, Elias, P., Briole, P., Sykioti, O., Proc. ALOS PI Symposium 2008, ESA/JAXA, Rhodes, (Greece), 3-7 November 2008, ESA SP 2009.

Reliable, accurate and timely forest mapping for wildfire management using ASTER and Hyperion satellite imagery, Keramitsoglou, I., Kontoes, C., Sykioti, O., Sifakis, N., Xofis, P., *Forest Ecology and Management*, 255, 3556-3562, 2008.

Ecosystem productivity and dynamics issued from multispectral and hyperspectral satellite imagery, Kyparissis, A., Markos, N., Stagakis, S., Levizou, E., Sykioti, O., 14th International Symposium of Remote Sensing (SPIE 2007), Florence (Italy), 17 - 20 September 2007.

A method for minimizing of low frequency and unwrapping artefacts from interferometric calculations, Elias, P., Kontoes, C., Sykioti, O., Avallone, A., Van Gorp, S., Briole, P., Paradissis, D., *International Journal of Remote Sensing*, 27(14), 3079-3086, 2006.

Evaluating the Performance of the Space-borne SAR Sensor Systems for Oil Spill Detection and Sea Monitoring over the south-eastern Mediterranean Sea, Kontoes, C., Sykioti, O., Paronis, D., Harisi, A., *International Journal of Remote Sensing*, 26(18), 4029-4044, 2005.

Mapping of forest species and tree density using new Earth Observation sensors for wildfire applications. Keramitsoglou, I., Kontoes, C., Koutroumbas, K., Sykioti, O., Sifakis, N., 12th International Symposium of Remote Sensing (SPIE 2005), Bruges (Belgium), 19-22 September 2005.

Development of a procedure correcting and reducing unwrapping artefacts using a set of ERS SAR interferograms. Case study: The September 7, 1999 Athens Earthquake, Elias, P., Sykioti, O., Kontoes, C., Briole, P., Avallone, A., Van Gorp, S., Paradissis, D., Proc. FRINGE: Advances in SAR Interferometry from ERS and ENVISAT missions, ESA-ESRIN, Frascati (Italy), 2-5 December 2003, in CD, 2004

Verifying InSAR derived vertical differential displacements by leveling. Application along the Mornos Open Aqueduct, Kotsis, I., Karamitsos, S., Kontoes, C., Paradissis, D., Sykioti, O., Elias, P., Briole, P., FIG 2004, Athens (Greece) 22-27 May 2004.

Ground deformation at Nisyros volcano (Greece), detected by ERS2 SAR differential interferometry, Sykioti, O., Kontoes, C., Elias, P., Sachpazi, M., Paradissis, D., Kotsis, I., *International Journal of Remote Sensing*, 24(1), 183-188, 2003.

Development of a procedure correcting and reducing unwrapping artefacts using a set of ERS SAR interferograms. Case study: The September 7, 1999 Athens Earthquake, Elias, P., Sykioti, O., Kontoes, C., Briole, P., Avallone, A., Van Gorp, S., Paradissis, D., FRINGE: Advances in SAR Interferometry from ERS and ENVISAT missions, ESA-ESRIN, Frascati (Italy), 2-5 December 2003.

Seismological and INSAR signature of unrest at Nisyros caldera, Greece, Sachpazi, M., Kontoes, C., Voulgaris, N., Laigle, M., Vougioukalakis, G., Sikioti, O., Stavrakakis, G., Baskoutas, J., Kalogeras, J., Lepine, J.-Cl., Baskoutas, J., Kalogeras, J., 2002, *J. Volcan. & Geoth. Res.*, 116, 19-33, 2002.

Inflation/Deflation sequence on Nisyros active volcano (Greece) during 1995-2000 issued from SAR differential interferometry, Sykioti, O., Kontoes, C., Elias, P., Briole, P., Sachpazi, M., 10th International Symposium of Remote Sensing (SPIE 2002), Crete (Greece), 23-27 September 2002.

Crustal deformation associated with the 1995-1998 unrest of Nisyros volcano (Greece), as observed by radar SAR interferometry, Kontoes, C., Sykioti, O., Elias, P., Briole, P., Sachpazi, M., Paradissis, D., Kotsis, I., 11th Assembly WEGENER project, Athens (Greece), June 12-14 2002.

Two examples of using ERS-2 SAR Interferometry in Greece. Study of the September 7th, 1999 Athens Earthquake and the Nisyros Volcano Activity, Kontoes, C., Sykioti, O., Elias, P., Briole, P., Remy, D., Sachpazi, M., Veis, G., Kotsis, I., Proc. ESA ERS-ENVISAT Symposium, 16-20 October 2000, Gottenborg, Sweden, 2000.

Possibilités et limites de l'interprétation géologique des images SAR ERS-1, Chorowicz, J., Koffi., B., Chalah, C., Chotin, P., Collet, B., Poli, J.T., Rudant, J.P., Sykioti, O., Vargas, G., *Bull. SFPT*, 138(2), 82-95, 1995

Numerical multisource and multiscale imagery in the study of the topographic surface. Hydrogeological application in a karstic environment: Verneuil-sur-Avre, Perche, France, Sykioti O., *International Journal of Rock Mechanics and Mining Sciences and Geomechanics Abstracts*, 1996.

Chapters in Books

Space Mission Characteristics and Requirements to be Addressed by Space-Data Router Enhancement of Space-Data Exploitation, Daglis I.A., Sykioti O., Anastasiadis A., Balasis G., Keramitsoglou I., Paronis D., Rontogiannis A. and Diamantopoulos S., *Wired/Wireless Internet Communication Lecture Notes in Computer Science*, 7277, pp 366-373, 2012

Conference / Seminar Organization - Courses

2016	SplitRS Summer School, 5-10 June 2016 (Chania, Crete) ⇒ Course and hands-on exercise on “Principles of Imaging Spectroscopy: Minerals and other materials”
2016	National and Kapodistrian University of Athens, Faculty of Geology and Geoenvironment – 26 February 2016 ⇒ Invited Lecture : “Active and Hyperspectral Remote Sensing: Principles and Applications in Geology and Geophysics”
2016	MSc in Space Science Technologies and Applications, National Observatory of Athens/University of Peloponnese ⇒ Courses in “Fundamentals of Remote Sensing: Sensors” and “Space Applications I: Principles of Spectroscopy in Geology/Mineralogy”, “Advanced Space Applications II”.
2016	PSP Applied Geography and Spatial Planning, Harokopio University, 19 Jan 2016 ⇒ Seminar on “Imaging Spectroscopy in Remote Sensing: Principles and Applications in Geosciences “
2015	3 RD Hellenic Forum on Science, Technology & Innovation, National Center of Scientific Research “Democritus”, 29 June - 3 July 2015

	⇒ Invited Lecture : “Joint satellite and radioactivity measurements for radiological assessment in the marine environment”
2015	SplitRS Summer School, 18-22 May 2015 ⇒ Course and hands-on exercise on “Principles of imaging spectroscopy. HSI indicators and methods for vegetation status assessment”
2014	NESPACE – Networking technologies for efficient Space data dissemination and exploitation Workshop, Athens (Greece), 18-19 February 2014. ⇒ Member of the Scientific Committee, Member of the Organizing Committee ⇒ Co-Editor of NESPACE Workshop Proceedings
2007-2009	PROTIPA: Advanced Remote Sensing Technologies for Monitoring and Protecting Forest and other Land Ecosystems”. General Secretariat of Research and Technology, Ministry of Development. Operational Programme «Competitiveness» (EPAN), Programme «Human Networks of Research and Technological Training – 2nd call». ⇒ Member of the Scientific Committee, Member of the Organizing Committee ⇒ Lectures and practice courses

Postdoc / PhD / MSc/Bsc Supervision

(Co-)Supervisor of 2 post-doc researchers, 4 MSc., 3 BSc
Member of the 3-member Advisory Committee of 2 PhD students.
Member of 7 examination committees of PhD and MSc students.

Membership in international and national committees / Reviewer

2016-...	Member of the Geological Society of Greece
2015-...	International reviewer of research proposals for the International Bureau of the German Federal Ministry of Education and Research at the Project Management Agency c/o German Aerospace Center (DLR).
2011-...	International reviewer of research proposals in "Measures to Attract Leading Scientists to Russian Educational Institutions". Thematic areas: “Space Research and Technology” and “Environment”. New Eurasia Foundation (Russian Federation in cooperation with DLR).
2009-...	Reviewer in international scientific journals : ⇒ Remote Sensing of the Environment ⇒ International Journal of Remote Sensing ⇒ Journal of Applied Remote Sensing ⇒ Remote Sensing ⇒ ISPRS - International Journal of Geo-Information ⇒ Journal of Basic and Applied Science ⇒ Journal of Imaging
2004	External reviewer of the european research project CLEOPATRA (Chemical Effluent and Oil Pollution Alert and Tracking). EVG-2002-00070 Energy, Environment and Sustainable

	Development (Final Scientific Report ref WP100-D1.6-PU-vers.2.0, 2005)
2002-03	National representative in the GMES Working Group «Adequacy of monitoring networks and quality data” supporting GMES Steering Committee