

## CV: ISSAAK PARCHARIDIS



### Personal information

First name / Surname

**ISSAAK PARCHARIDIS**

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Nationality

Greek

### Occupation-Carrier

2018-Today Professor at Harokopio University, of Athens, Dep. of Geography  
8/2019 Visiting professor at DLR (Germany) in the frame of Erasmus staff mobility  
2018 Visiting professor at Sapienza University/ Engineering Dep. in the frame of Erasmus staff mobility  
2-7/2017 Visiting Professor at ESA/ ESRIN  
5/2016 Invited Professor at ENS/Dep. of Geosciences  
2013-2017 Associate Professor at Harokopio University, of Athens, Dep. of Geography  
2008-2012 Assistant Professor at Harokopio University of Athens, Dep. of Geography  
2004-2007 Lecturer at Harokopio University of Athens, Dep. of Geography  
2000-2003 Associate Researcher at National University of Athens  
2000-2002 Scientific advisor in General Secretariat of Civil Protection of Greece  
1998-2001 Visiting lecturer at MAICH (Crete)  
1996-1999 Special scientist at Earthquake Planning and Protection Organization of Greece  
1987-1992 Learning support teacher for high school students (SOS Village, Greece, Vari)  
2022 member of the new "Permanent Scientific Committee for the Monitoring of the Greek Volcanic Arc"  
2020 Member of "Permanent Scientific Committee for the Monitoring of the Greek Volcanic Arc"  
2019 National expert for validation of Science for Disaster Risk Management 2020: Acting today, protecting tomorrow» published by Disaster Risk Management Knowledge Centre (DRMKC) of JRC (Joint Research Centre)  
2001-2003 Member of the United Nations ACTION TEAM N. 7 (COMMITTEE ON THE PEACEFUL USES OF OUTER SPACE) aiming the development of a global management system for disasters management, based on space techniques.  
2001-2004 Member of the administrative board of the Earthquake Planning and Protection Organization of Greece

### Membership

### Education and training

Date

September 1994

Title of qualification awarded

Doctor of Science

Principal subjects/occupational skills covered

Tectonic Analysis of central and northern Greece using Remote Sensing data

Name and type of organisation providing education and training

Agricultural University of Athens, Lab. of Geology

Date

1983

Title of qualification awarded

BSc in Geology

Principal subjects/occupational skills covered  
Name and type of organisation providing education and training

Applied Geology  
University of Parma (ITALY), Faculty of Geological Sciences

**Scholarships**

Scholarship from the CNR (Centro di Ricerca Nazionale, Italy) for short research visiting at CNR's institution (2010).

**Seminars for training**

Seminar on "Image information Mining", (European Space Agency/ESRIN 2002, Frascati, Italy).  
Course on SAR Interferometry: Principles, Data Processing and Applications. GAMMA Remote Sensing AG, Gümligen, Switzerland, from 30/04/07 to 02/05/07.  
European self training workshop on the international "Space and environmental disasters" charter, Paris 18-19/3/2002.  
Applications in Geosciences of ILWIS s/w ( International Institute for Aerospace Surveys and Earth Science 1995, Enschede – Holland):  
  
Training course "From Optical to Radar", ESA/ESRIN, May 1994.  
Training course "Applications of Radar data" ESA/ESRIN, October 1994.

**Teaching**

Undergraduate courses

Remote Sensing-Photointerpretation (Harokopio University of Athens)  
Advances in Remote Sensing (Harokopio University of Athens)

Postgraduate courses

Advances in Remote Sensing at postgraduate course (Harokopio University of Athens)  
Advanced technologies in natural risks management (Harokopio University of Athens)  
Emergency planning (Harokopio University of Athens)  
Space technology in emergency management (National Centre for Public Administration and Local Government)

Seminars

Lecturer at Seminar TRANS-ATLANTICTRAINING (ESA-NASA-SARMAP-UNIVERSITYPECS), Hungary (Pecs, 2017)  
Maich lecturing in the frame of the seminar "Geoinformation Technologies Application for Decision in Coastal habitat Management" (Chania, Crete island, 2006)  
Technical University of Crete  
National school of Public Administration, Seminar to educate civil protection officers (2002)  
Presentation-lecture at Sapienza University (Rome , Italy, 2018)  
Presentation-lecture at DLR (Munich, Germany, 2019)

Mother tongue(s)

Greek

Other language(s)

Self-assessment  
European level (\*)

Italian  
English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	B2	Independent user	C2	Proficient user	C1	Proficient user	B1	Independent user
B2	Independent user	B2	Independent user	B1	Independent user	B1	Independent user	B1	Independent user

(\*) Common European Framework of Reference for Languages

Computer skills and competences

GIS and Remote Sensing software:  
ESRI ArcView, ESRI ArcGIS, ERDAS Imagine, PCI Geomatica, ILWIS, IDRISI, ENVI, SNAP  
SAR Interferometry software:  
Atlantis EV-InSAR, GAMMA  
Graphic design & image analysis applications:  
Office™ tools (Word™, Excel™, PowerPoint™)

Additional information

**Participation in RESEARCH PROJECTS ( in bold as project coordinator)**

**Interferometry based on active EO satellite imagery over Stratoniki area (Northern Greece), (EAGME, 2022)**

Development of Web application in order to display geospatial data (Ionian islands Region 2022).

Hephaestus: A large scale multitask dataset towards InSAR understanding, (HORIZON project E.U., 2022).

Assessment of earthquake, wildfires and flood risks in Attica Prefecture (Prefecture of Attica,, 2020-2022).

**Application of SAR interferometry over the broader mining area of Amyntaio, Florina, (EAGME, 2021-today)**

Space for Shore (A project based on the richness of satellite imagery for one of the greatest global concerns the erosion of coastlines, ESA, 2019-2021)

**Space-based SAR Interferometry as a non-invasive method to monitor post-earthquake structural safety of building stock: The case of Western Cephalonia after 1-2/2014 seismic event.** (ESA, Radarsat, CAT-1 id: 28809, 2014-2016).

EnCeladus Hellenic Supersite (South Evoikos, Corinth rift and Ionian Sea). The Greek Supersite (Geohazards Supersites and Natural Laboratories, GSNL, 2018\_today)

**Monitoring surface deformation induced by hydro-geological and geotechnical factors in central Greece by multi-temporal SAR interferometry** (ESA, id: 32781, 2016-2017).

**Amazon deforestation monitoring by SAR polarimetry** (ESA, id: 29513, 2014-2015).

**SPACE WEEK:** Space training course for secondary schools and young scientists and professionals (December 2015, supported by ESA in cooperation with si-cluster )

**Deformation unrest signs over Santorini volcanic activity in 2011-2012 as precursors for future episodes** (ESA, SOAR2 id: 16812, 2014-2015).

**Novel methodologies for the assessment of risk of ground displacement. Bilateral project Greece-China,** (General Secretariat of research and Technology, 2012-2015).

**SAR Interferometry over Santorini island during unrest phase (European Space Agency, 2011-2012)**

**High resolution SAR Interferometry for monitoring the Rio-Antirio Bridge (Western Greece) : a case study in the frame of Terrafirma-X project. (German Aerospace Center (DLR), project GEO0904, 2010-2011).**

Earth surface displacement and related risks based on space SAR interferometry (ESA's 2<sup>nd</sup> call for ideas for Greek institutions, integrated in TERRAFIRMA\_X GMES project,, 2009-2011).

Ground Deformation Studies in the Central Ionian Islands (Greece) using Time Series Interferometry. European Space Agency (ESA), CAT-1 6831, 2010-2012.

Ground deformation monitoring in (i) Suez canal area (ii) Alexandria city and related risks by using space techniques, optical data and SAR interferometry. (Alexandrina Biblioteca Foundation, 2009-2011)

**Ground Deformation Monitoring in the Greater Cairo Metropolitan Region (Egypt) by SAR interferometry (NATO Collaborative Linkage Grant, 2009-2010).**

**Ground deformation mapping in Iliia Prefecture using Persistent Scatterers Interferometry technique from space radar data. (Latsis I. Public Foundation, 2008-9).**

Using Remote Sensing and GIS techniques for predicting the most hazardous areas for landslides in South Sinai. (Ministry of Higher Education of Egypt, 2007-08).

**Continuous risk assessment of structures and plants in areas of ground deformation susceptibility by space-based SAR/ASAR Interferometry. (ESA 's 1<sup>st</sup> call for ideas for Greek institutions, integrated in TERRAFIRMA GMES project, 2007-2009).**

**Study of land cover changes particularly in urban areas for Imvros and Tenedos Islands from 1960 until 2005. (Hellenic Ministry of Foreign Affairs and Hellenic Aid, 2007-2008).**

Ground deformation monitoring in areas of high volcanic and seismic risk by conventional and Persistent Scatterers Interferometry. (European Space Agency (ESA), AO for Greece, AO.GR.3333, 2006-08).

**Development of InSAR methodology for detection of linear and non linear ground deformation. (General Secretariat of Research and Technology of Greece, ENTER 2006, 2006).**

Crustal deformation and volcanic hazard assessment along the Hellenic Volcanic Arc (HVA), using Differential GPS measurements & SAR Interferometry. (European Space Agency (ESA), AO for Greece, AO.GR.1497, 2003-05).

**Application of Differential Interferometry to mapping neotectonic movements due to human induced land subsidence. (European Space Agency (ESA), AO for Greece, AO.GR.1484, 2003-05).**

Management of seismic risk in urban and non-urban regions of Corinth Prefecture-Periandros. (Corinthos Prefecture, 2003-05).

**“Seismopolis” A national project which aims to exploit technological means to inform and create awareness to the general public on issues relative to the correct behavior prior, during and immediately after an earthquake takes place. (General Secretariat of Research and Technology of Greece, 2003-06).**

Joined application of space and ground techniques detecting seismic precursors (Bilateral project Greece-Italy, General Secretariat of Research and Technology of Greece, 2003-2004).

Detecting seismic precursors in the broader area Kefallonia ( Earthquake Planning and Protection Organization of Greece, 2001-2002)

Development of an integrated system for operational response based on a GIS (Earthquake Planning and Protection Organization of Greece, 2001-2002)

Geo-spatial warning systems: Nisyros volcano (Greece), An emergency case study. (E.U.Information SocietiesTechnology project, 2000-02)

Space techniques and GIS for monitoring seismic risk in active tectonic areas. (STRIM EURO-OPA, Council of Europe, 2009)

Land use mapping in Crete island using Gis and remote Sensing (INTERREG, 2003-2005)

Multi-parametric study of the broader area of Atalanti fault system (Earthquake Planning and Protection Organization of Greece, 2001-2002)

Demonstrating the utility of SAR differential interferometry for the assessment of earthquake risk. (E.U., Framework IV, Environment and Climate, Theme 3: Space techniques Applied to Environmental Monitoring, Area 3.3: C.E.O. 1998-99).

**Novel methodologies for the assessment of risk of ground displacement. Bilateral project Greece-China, (GSRT, 2012-2015)**

A multidisciplinary project for urban and emergency planning in seismic regions. (E.U and E.P.P.O., 1996-98).

**Spaceborne SAR Interferometry as a noninvasive tool to assess the vulnerability over cultural heritage sites.(2019-2022) Bilateral project, Greece-China, GSRT (principal Investigator).**

**Space for Shore Phase A & B, ESA/ITT, EOEP-5, (2019-2021)**

"Telemachus" Innovative Operational Seismic Risk Management System in the Region of Ionian Islands, (2019-2021) PEP Ionion Nissson, (Greece-EU, National Strategic Reference Framework NSRF)

"Laertis", (2019-2021) PEP Ionion Nissson, (Greece-EU, National Strategic Reference Framework NSRF)

**Spatio-temporal assessment of land deformation, as a factor contributing to relative sea level rise, in coastal urban and natural protected areas using space-based Earth observation data (2019-2020) Partnership Agreement 2014-2020, Human Resource Development Training & Lifelong Learning, 2018-2020 Hellenic Republic-E.U**

## Publications

### • *Peer reviewed journals*

1. Zhu, Meng, Fulong Chen, Wei Zhou, Hui Lin, Issaak Parcharidis, and Jin Luo. (2022). Two-Dimensional InSAR Monitoring of the Co- and Post-Seismic Ground Deformation of the 2021 Mw 5.9 Arkalochori (Greece) Earthquake and Its Impact on the Deformations of the Heraklion City Wall Relic. **Remote Sensing** **14**, no. 20: 5212, <https://doi.org/10.3390/rs14205212>.
2. Seleem, T., Bafi, D., Karantzia, M., Parcharidis I., (2022). Water Quality Monitoring Using Landsat 8 and Sentinel-2 Satellite Data (2014–2020) in Timsah Lake, Ismailia, Suez Canal Region (Egypt). **Journal of Indian Soc. of Remote Sensing**, <https://doi.org/10.1007/s12524-022-01613-9>.
3. Krassakis, P.; Karavias, A.; Nomikou, P.; Karantzalos, K.; Koukouzas, N.; Parcharidis, I. (2022). Geospatial Intelligence and Machine Learning Technique for Urban Mapping in Coastal Regions of South Aegean Volcanic Arc Islands. **Geomatics**, **2**, 297–322. <https://doi.org/10.3390/geomatics2030017>.
4. Tompolidi, A.M. Koutroumbas, K., Sykioti, O., and Parcharidis, I. (2022) Correlation of thermal performance of ASTER with the hydrothermal alteration zones: the case of Nisyros Volcano, Greece. **Journal of Applied Remote Sensing**, Vol. 16(3), 034506, <https://doi.org/10.1117/1.JRS.16.034506>.
5. Falaras, T.; Tselka, I.; Papadopoulos, I.; Nikolidaki, M.; Karavias, A.; Bafi, D.; Petani, A.; Krassakis, P.; Parcharidis, I. (2022), Operational Mapping and Post-Disaster Hazard Assessment by the Development of a Multiparametric Web App Using Geospatial Technologies and Data: Attica Region 2021 Wildfires (Greece). **Applied Sciences**, **12**, 7256. <https://doi.org/10.3390/app12147256>.
6. Triantafyllou, I.; Karavias, A.; Koukouvelas, I.; Papadopoulos, G.A.; Parcharidis, I. (2022). The Crete Isl. (Greece) Mw6.0 Earthquake of 27 September 2021: Expecting the Unexpected. **GeoHazards**, **3**, 106–124.
7. Kaviris, G., Kapetanidis, V., Spingos, I., Sakellariou, N., Karakonstantis, A., Kouskouna, V., Elias, P., Karavias, A., Sakkas, V., Gatsios, T., Kassaras, I., Alexopoulos, J.D., Papadimitriou, P., Voulgaris, N. & Parcharidis, I.(2022). Investigation of the Thiva 2020–2021 Earthquake Sequence Using Seismological Data and Space Techniques, **Applied Sciences** (Switzerland), vol. 12, no. 5.

8. Markogiannaki, O., Xu, H., Chen, F., Mitoulis, S.A. & Parcharidis, I. (2022), Monitoring of a landmark bridge using SAR interferometry coupled with engineering data and forensics, **International Journal of Remote Sensing**, vol. 43, no. 1, pp. 95-119.
9. Tselka, I.; Krassakis, P.; Rentzelos, A.; Koukouzas, N.; Parcharidis, I.(2021) Assessing Post-Fire Effects on Soil Loss Combining Burn Severity and Advanced Erosion Modeling in Malesina, Central Greece. **Remote Sensing**, 13, 5160. <https://doi.org/10.3390/rs13245160>
10. Tompolidi, A., Parcharidis, I., & Sykioti, O. (2021). Investigation of sentinel-1 capabilities to detect hydrothermal alteration based on multitemporal interferometric coherence: The case of Nisyros volcano (Greece). **Procedia Computer Science**, 181, 1027-1033. doi:10.1016/j.procs.2021.01.297.
11. Papadopoulos, G.A.; Agalos, A.; Karavias, A.; Triantafyllou, I.; Parcharidis, I.; Lekkas, E. (2021). Seismic and Geodetic Imaging (DInSAR) Investigation of the March 2021 Strong Earthquake Sequence in Thessaly, Central Greece. **Geosciences**, 11, 311. <https://doi.org/10.3390/geosciences11080311>.
12. Chen, F., Xu, H., Zhou, W., Zheng, W., Deng, Y., & Parcharidis, I. (2021). Three-dimensional deformation monitoring and simulations for the preventive conservation of architectural heritage: A case study of the Angkor Wat Temple, Cambodia. **GIScience and Remote Sensing**, 58(2), 217-234. doi:10.1080/15481603.2020.1871188.
13. Mavroulis, S., Triantafyllou, I., Karavias, A., Gogou, M., Katsetsiadou, K., Lekkas, E., Papadopoulos, G.A. & Parcharidis, I. (2021), "Primary and secondary environmental effects triggered by the 30 October 2020, mw = 7.0, Samos (eastern Aegean Sea, Greece) earthquake based on post-event field surveys and InSAR analysis", **Applied Sciences** (Switzerland), vol. 11, no. 7.
14. Parcharidis, I., Karavias, A., Krassakis, P., Lymperopoulos, K. (2021). Detection and mapping co-seismic deformation induced by a light earthquake ( $M < 5$ ) using C band SAR data. **Academia Letters**, Article 2887
15. Koukouli, M.-., Skoulidou, I., Karavias, A., Parcharidis, I., Balis, D., Manders, A., Segers, A., Eskes, H. & Van Geffen, J. (2021), Sudden changes in nitrogen dioxide emissions over Greece due to lockdown after the outbreak of COVID-19, **Atmospheric Chemistry and Physics**, vol. 21, no. 3, pp. 1759-1774.
16. Chen, F., Liu, H., Xu, H., Zhou, W., Balz, T., Chen, P., Zhu, X., Lin, H., Fang, C. & Parcharidis, I. 2021, Deformation monitoring and thematic mapping of the Badaling Great Wall using very high-resolution interferometric synthetic aperture radar data, **International Journal of Applied Earth Observation and Geoinformation**, vol. 105.
17. Elias, P.; Spingos, I.; Kaviris, G.; Karavias, A.; Gatsios, T.; Sakkas, V.; Parcharidis, I (2021). Combined Geodetic and Seismological Study of the December 2020 Mw= 4.6 Thiva (Central Greece) Shallow Earthquake. **Applied Sciences**, 11, 5947. <https://doi.org/10.3390/app11135947>.
18. Tompolidi, Athanasia-Maria, Sykioti Olga, Koutroumbas Konstantinos, and Parcharidis Issaak. (2020). Spectral Unmixing for Mapping a Hydrothermal Field in a Volcanic Environment Applied on ASTER, Landsat-8/OLI, and Sentinel-2 MSI Satellite Multispectral Data: The Nisyros (Greece) Case Study, **Remote Sensing**, 12, no. 24: 4180. <https://doi.org/10.3390/rs12244180>.
19. Elias, P.; Benekos, G.; Perrou, T.; Parcharidis, I.(2020), Spatio-Temporal Assessment of Land Deformation as a Factor Contributing to Relative Sea Level Rise in Coastal Urban and Natural Protected Areas Using Multi-Source Earth Observation Data. **Remote Sensing**, 12, 2296.
20. Gatsios T., Cigna F., Tapete D., Sakkas V., Pavlou K., Parcharidis I., (2020), Copernicus Sentinel-1MT-InSAR, GNSS and Seismic Monitoring of Deformation Patterns and Trends at the Methana Volcano, Greece. **Applied Sciences**, 10, 6445; <http://doi:10.3390/app10186445>.
21. Kaitantzian A., Loupasakis C., Tzampoglou P., Parcharidis I.(2020) Ground Subsidence Triggered by the Overexploitation of Aquifers Affecting Urban Sites: The Case of Athens Coastal Zone along Faliro Bay (Greece), **Geofluids**, Article ID 8896907, <https://doi.org/10.1155/2020/8896907>
22. Chen F., Zhou W., Xu H., Parcharidis I., Lin H., Fang C., (2020) Space technology facilitates the preventive monitoring and preservation of the Great Wall of the Ming Dynasty: a comparative study of the Qingtongxia and Zhangjiakou sections in China, in **IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing**, doi: 10.1109/JSTARS.2020.3023297.
23. Markogiannaki, O., Karavias, A., Bafi, D., Angelou D., Parcharidis I., (2020), A geospatial intelligence application to support post-disaster inspections based on local exposure information and on co-seismic DInSAR results: the case of the Durres (Albania) earthquake on November 26, **Natural Hazards**, 103, 3085–3100. <https://doi.org/10.1007/s11069-020-04120-7>

24. Karatza A., Galani L., Parcharidis I. (2020), Teaching Climate Change and Glaciers, **Current Journal of Applied Science and Technology** 39(15): 68-78, 2020; Article no.CJAST.57167.
25. Xiong Ke, Zhan Yu, Parcharidis I., Do Jie, Di Baofeng (2019) Detecting Surface Deformation and Calculating Colluvial Materials: the Case of the 2017 Jiuzhaigou Earthquake. **Resources and Environment in the Yangtze Basin**, Vol.28 No.1, 184-191, DOI: 10. 11870/cjlyzyyhj201901019
26. Papadopoulos, A., Parcharidis, I., Elias, P., Briole, P. (2019) Spatiotemporal evolution of the deformation around the Rio-Patras fault (Greece) observed by synthetic aperture radar interferometry from 1993 to 2017. **International Journal of Remote Sensing**, 40:16, 6365- 6382, DOI: 10.1080/01431161.2019.1591646
27. Krassakis, P., Kazana, S., Chen, F., Koukouzas N., Parcharidis, I., Lekkas, E. (2019) Detecting subsidence spatial risk distribution of ground deformation induced by urban hidden streams **Geocarto International**, 1, 18, doi: 10.1080/10106049.2019.1622601
28. Stamatopoulos, C., Petridis, P., Parcharidis I., Fomelis M., (2018). A method predicting pumping-induced ground settlement using back- analysis and its application in the Karla region of Greece, **Nat Hazards**, 92: 1733. <https://doi.org/10.1007/s11069-018-3276-1>
29. Athanassios Ganas, Penelope Kourkouli, Pierre Briole, Alexandra Moshou, Panagiotis Elia and Issaak Parcharidis (2018). Coseismic Displacements from Moderate-Size Earthquakes Mapped by Sentinel-1 Differential Interferometry: The Case of February 2017 Gulpinar Earthquake Sequence (Biga Peninsula, Turkey). **Remote Sensing**, 10 (7):1089, DOI:10.3390/rs10071089
30. Perrou, T., Garioud, A. & Parcharidis, I. (2018). Use of Sentinel-1 imagery for flood management in a reservoir-regulated river basin, **Frontiers of Earth Science**. Volume 12, Issue 3, pp 506–520, doi: <https://doi.org/10.1007/s11707-018-0711-2>
31. Chen, F., Wu, Y., Zhang, Y., Parcharidis, I., Ma, P., Xiao, R., Xu, J., Zhou, W., Tang, P. & Fomelis, M., (2017). Surface motion and structural instability monitoring of Ming Dynasty City Walls by two-step Tomo-PSInSAR approach in Nanjing City, China. **Remote Sensing**, 9 (4), 371, <https://doi.org/10.3390/rs9040371>.
32. Ganas A., Elias E., Bozionelos G., Papathanassiou G., Avallone A., Papastergios A., Valkaniotis S., Parcharidis I., Briole P., (2016), Co-seismic deformation, field observations and seismic fault of the 17 November 2015 M = 6.5, Lefkada Island, Greece earthquake, **Tectonophysics**, doi: 10.1016/j.tecto.2016.08.012
33. Arapostathis S., Parcharidis I., Stefanakis E., Dramatic G. and Kalogeras I. (2016) A Method for Developing Seismic Intensity Maps from Twitter Data. **Journal of Civil Engineering and Architecture**, 10, 839-852.
34. Neokosmidis, S., Elias, P., Parcharidis, I., & Briole, P. (2016). Deformation estimation of an earth dam and its relation with local earthquakes, by exploiting multi-temporal synthetic aperture radar interferometry: Mornos dam case (central Greece). **Journal of Applied Remote Sensing**, 10(2) doi:10.1117/1.JRS.10.026010.
35. Briole, P., Elias, P., Parcharidis, I., Bignami, C., Benekos, G., Samsonov, S., Kyriakopoulos, C., Stramondo, S., Chamot-Rooke, N., Drakatou, M.L. & Drakatos, G., (2015). The seismic sequence of January-February 2014 at Cephalonia Island (Greece): constraints from SAR interferometry and GPS, **Geophysical Journal International**, 203, 1528-1540
36. Benekos, G., Derdelakos, K., Bountzouklis, C., Kourkouli, P. & Parcharidis, I. (2015). Surface displacements of the 2014 Cephalonia (Greece) earthquake using high resolution SAR interferometry. **Earth Science Informatics**, 8(2), 309-315.
37. Parcharidis, I., Fomelis, M., Benekos, G., Kourkouli, P., Stamatopoulos, C., & Stramondo, S. (2015). Time series synthetic aperture radar interferometry over the multispan cable-stayed Rio-Antirio Bridge (central Greece): Achievements and constraints. **Journal of Applied Remote Sensing**, 9(1) doi:10.1117/1.JRS.9.096082.
38. Fomelis, M., Trasatti, E., Papageorgiou, E., Stramondo, S. & Parcharidis, I., 2013. Monitoring Santorini volcano (Greece) breathing from space, *Geophysical Journal International*, doi: 10.1093/gji/ggs135
39. Papageorgiou, E., Fomelis M., Parcharidis I., (2012). Long-and-short term deformation monitoring of Santorini Volcano: Unrest evidence by DInSAR analysis. **Applied Earth Observations and Remote Sensing** Doi10.1109/JSTARS.2012.2198871.
40. Papanikolaou, I.D., Fomelis, M., Parcharidis, I., Lekkas, E.L. & Fountoulis, I.G., (2010). Deformation pattern of the 6 and 7 of April 2009, Mw=6.3 and Mw=5.6 earthquakes in L' Aquila (Central Italy) revealed by ground and space based observations. **Natural Hazards and Earth System Sciences** 10, 73-87
41. Poscolieri M., Parcharidis I., Fomelis M., Rafanelli C. (2011). Ground deformation monitoring in the Greater Cairo Metropolitan Region (Egypt). **Environmental Semeiotics Journal** 4(3), 17-45.

42. Parcharidis I., Kourkouli P., Karymbalis E., Foumelis M. and Karathanassi V., (2011). Time series SAR Interferometry for ground deformation monitoring over small-scale tectonically active deltaic environment (Mornos, Central Greece). **Journal of Coastal Research** (doi: 10.2112/JCOASTRES-D-11-00106.1)
43. Seleem, T.A., Parcharidis, I., Foumelis, M. & Kourkouli, P., (2011). Detection of ground deformation over Sharm El-Sheikh – Ras Nasrani coastal zone, South Sinai (Egypt), by time series SAR interferometry. **Journal of African Earth Sciences**, 59, 373-383
44. Choussianitis K., Sakkas V., Parcharidis I., Vassilopoulou S., Lagios E., (2011). Surface deformation of Zakynthos island deduced from DGPS measurements and Differential SAR Interferometry. **Hellenic Journal of Geosciences** , 45, 33-44
45. Parcharidis I., Pavlopoulos K., Poscolieri M., Kourkouli P.,(2009). Using time series of satellite earth's observation data to determine geomorphological and paleogeographical changes at the southeastern coastal areas of Gokceada (Imvros) island (Turkey). **Z. Geomorph. N.F. Journal**, 53 (1), 139-149
46. Parcharidis I., Kokkalas, S., Fountoulis, I. & Foumelis, M., (2009). Detection and monitoring of active faults in urban environments: Time series interferometry on the cities of Patras and Pyrgos (Peloponnese, Greece). **Remote Sensing**, 1, 676-696.
47. Foumelis M., Parcharidis I., Lagios E. & Voulgaris N., (2009). Evolution of post-seismic ground deformation of the Athens 1999 earthquake observed by SAR interferometry. **Journal of Applied Geophysics**, Volume 69, Issue 1, 16-23.
48. Parcharidis I., Foumelis, M., Kourkouli, P. & Wegmüller, U., (2009). Persistent caterers' InSAR to detect ground deformation over Rio-Antirio area (Western Greece) for the period 1992-2000. **Journal of Applied Geophysics**, 68, 348-355
49. Raucoules D., Parcharidis I., Feurer D., Novalli F., Ferretti A., Carnec C., Lagios E., Sakkas V., Le Mouelic S., Cooksley G., and Hosford S. (2008). Ground deformation detection of the greater area of Thessaloniki (Northern Greece) using radar interferometry techniques. **Natural Hazards and Earth System Sciences**, Journal, 8, 779-788.
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