

# Konstantinos Papatheodorou

Professor

Surveying & Geoinformatics Engineering department,  
International Hellenic University  
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## Current Academic Position

Professor of Applied Geology & Geoinformatics, at the Surveying & Geoinformatics department, of the International Hellenic University ([http://civilgeo.teicm.gr/index.php?cat\\_id=62](http://civilgeo.teicm.gr/index.php?cat_id=62))

## Professional & Research Experience

Covers scientific fields which include: Engineering Geology, Hydrogeology, Natural Disaster Prevention and Management, Remote Sensing, development of Geographical Information Systems applications, Natural Resource exploration, Environmental Protection and Management, and Applied Geophysical research.

### Professional profile:

- Freelance Engineering Geologist (1986-2005) with more than 30 successfully implemented projects of the category of «Geological, Hydrogeological & Geophysical Studies and Research». Awarded with C' class decree by the Hellenic Ministry of Public Works (1999).

### Project Coordination and Management

**Coordinator and senior researcher** of the following (recent) projects, funded by the EU over various funding Programmes:

- A Scientific Network for Earthquake, Landslide and Flood hazard prevention (2013-15), Black Sea Basin JOP 2007-13. Project Budget 1.035.000,0€. Awarded by the BSB JOP 2007-13 Managing Authority as Best Practice Project (May 2015).
- Rapid Earthquake Damage Assessment Consortium -REDACT (07 / 2020 – 31.12.2022). Project Budget 974.580,0€. Funded by the Black Sea Basin 2014-20 JOP. Awarded as “Flagship Project” (February 2023), featured on TESIM Voices from the field (<https://interregtesimnext.eu/voices/konstantinos-papatheodorou/>), presented in EURONEWS (March 2024, <https://www.euronews.com/my-europe/2024/03/18/what-should-you-do-in-the-event-of-earthquake> and <https://www.euronews.com/my-europe/2024/03/18/redact-the-european-project-coordinating-rapid-earthquake-response-in-the-black-sea>)
- Earthquake Resilient Schools. Budget 923.784,5€. Funded by the Union Civil Protection Mechanism-UCPM (UCPM-2022-PP). The project has been successfully completed.

### Funded Research Projects (Grants)

- Participation as a senior researcher and/or coordinator in more than 50 research projects with subjects covering: Natural Disaster Mitigation, Engineering Geology, Remote Sensing, Geographic Information Systems (GIS) including the development of Decision Supporting Systems (DSS), Hydrogeology, Applied Geophysical Research.
- **Recent involvement in Research Projects (Grants):**
  - Mixed Reality and Geoinformatics for the demonstration of Monuments MERGIN'MODE (2020-22). Role: Senior Researcher.
  - Strengthening educational programs in Arts and Humanities through European methods and tools (STEM / ARTEST). Role: Senior Researcher.

- Investigation of the hydrological regime and the flow study of Acheloos River, downstream of the Hydroelectric Stations (YS) of Kremastas, Kastraki and Stratos I and II, with the utilization of geoinformatics technologies. Role: Senior researcher.
- Monitoring experimental cropland using GIS and Remote Sensing (Drone and Satellite data), for assessing qualitative and quantitative crop parameters. Role: main researcher.
- Updating of the Master Plan for flood protection projects of the Prefecture of Thessaloniki. Role: senior researcher.
- Rapid Earthquake Damage Assessment Consortium (REDAcT). Role: Vice Coordinator & Senior Researcher. Funded by the Black Sea Basin JOP 2017-23 Programme.
- Earthquake Resilient Schools (EReS). UCPM 2022. Role: Coordinator & Senior Researcher.
- Rapid Earthquake Damage Assessment NEXt (REDA-NEXt). Role: Vice Coordinator & Senior Researcher. Funded by the INTERREG Black Sea NEXT Programme. Ongoing.

## Education

- Geologist (1981), Geology Department, Aristotle University of Thessaloniki, Greece.
- PhD in Engineering Geology, Civil Engineering department, Aristotle University of Thessaloniki, Greece.

## Published Research

More than 70 publications in scientific journals and presentations at international conferences, with more than 120 references over the last 5 years on subjects related to Engineering Geology, Hydrogeology, Natural Hazard assessment and disaster prevention and Geoinformatics.

## Scientific Interests

- Natural Disaster Prevention & Management
- Geoinformatics applications (mainly on Natural disaster prevention & management, promotion and management of groundwater and on environmental protection).
- Remote Sensing and applications in Geology and the Environment.
- Groundwater protection and management
- Applied Geophysical investigations using Ground Penetrating Radar-GPR and Seismic Refraction methods.

## Other information

- Chairman of the Scientific Committee of International Conferences (2016, 2018 & 2020)
- Member of the Scientific Committee of International Conferences
- Member of the Editorial Board of International journals
- Referee in scientific journals, including (indicative): Water (Citescore 2017 (Scopus): 2.29), Scimago H Index 12, Earth and Planetary Sciences); Hydrology (Open Access Journal, Issn 2306-5338); Hydrological Sciences Journal, Taylor & Francis, Scimago Water Science & Technology (Q1); International Journal of Advanced Robotics and Automation (ISSN: 2473-3032); International Journal of GeoInFormatics, Scimago Earth & Planetary Sciences (Q3).
- Languages: reading, writing, Greek and English (Proficiency, Michigan University).

## Selected Recent Publications

- C. Sarantis, K. Evangelidis & **K. Papatheodorou** (2018): Natural Disasters modelling over a python-based WebGIS platform. International Conference "Water in Engineering Research-WATER 2018", Constanta, Romania, June 2018.
- **Konstantinos Papatheodorou** (2020): Rapid Earthquake Damage Assessment and information dissemination for Earthquake Disaster Mitigation. Plenary Speech. International Scientific Conference CIBV2020-Civil Engineering and building services, 5 & 6 November 2021, held on-line.
- **K. Papatheodorou**, N. Klimis, B. Margaritis, K. Ntouros (2021): Improving the Infinite Slope Model outputs for Regional Landslide Hazard assessment. Plenary Speech. International Scientific Conference CIBV2021-Civil Engineering and building services, 4 & 5 November 2021, held on-line.
- **K. Papatheodorou**, N. Theodoulidis, N. Klimis, C. Zulfikar, D. Vintila, D. Toma-Danila, V. Cardanet, E. Kirtas (2021): Improving Earthquake Emergency Response with Decision Supporting Systems- the REDACt example. International Conference "SafeGreece 2021", held on-line.
- Nikolaos Klimis, George Papathanassiou, Georgios Panagopoulos, Emmanouil Kirtas, Christos Karakostas, **Konstantinos Papatheodorou** (2021): REDA SYSTEM: EARTHQUAKE TRIGGERED GEOTECHNICAL HAZARD AND RISK ASSESSMENT OF BUILDING STOCK IN BLACK SEA BASIN CROSS-BORDER AREAS. Eighth (8th) International Conference on Civil Protection & New Technologies SAFE GREECE 2021, 24 - 26 November, ON-LINE.
- Charalampos (Haris) Kontoes, Anastasios Anastasiadis, Georgios Panagopoulos, Constantinos Loupasakis, Konstantinos Chousianitis, Nikolaos Stathopoulos, Emmanouil Kirtas, Evi Riga, Kyriazis Pitilakis, Christos Karakostas, Sotiria Stefanidou, **Konstantinos Papatheodorou**, Elissavet Chatzicharalampous, Agavni Kaitantzian, Eleni Grigorakou. Seismic Risk Assessment in the Region of Attica, Greece. Ninth (9th) International Conference on Civil Protection & New Technologies SafeThessaloniki, 29 September - 1 October, Thessaloniki, Greece. SafeThessaloniki 2022 Proceedings, ISSN 2654-1823.
- **Konstantinos Papatheodorou**, E. Kirtas, K. Ntouros, G. Panagopoulos, P. Gakos, N. Theodoulidis, N. Klimis (2022): Education & Tools to Support Public Response in Earthquake Emergencies: the Redact Educational Hub. Ninth (9th) International Conference on Civil Protection & New Technologies SafeThessaloniki, 29 September - 1 October, Thessaloniki, Greece. SafeThessaloniki 2022 Proceedings, ISSN 2654-1823.
- Klimis Nikolaos, **Papatheodorou Konstantinos**, Sotiriadis Dimitris, Basil Margaritis (2022) : Improvement of the Infinite Slope Model and its Implication in Fragility Curves Regarding Seismic Cut Slope Stability. 3rd EUROPEAN CONFERENCE ON EARTHQUAKE ENGINEERING & SEISMOLOGY BUCHAREST, ROMANIA, 2022
- **Papatheodorou, K.**, Theodoulidis, N., Klimis, N., Zulfikar, C., Vintila, D., Cardanet, V., Kirtas, E., Toma-Danila, D., Margaritis, B., Fahjan, Y., Panagopoulos, G., Karakostas, C., Papathanassiou, G., & Valkaniotis, S. (2023). Rapid Earthquake Damage Assessment and Education to Improve Earthquake Response Efficiency and Community Resilience. *Sustainability*, 15(24), 16603. <https://doi.org/10.3390/su152416603>
- **Konstantinos Papatheodorou**, Nikolaos Theodoulidis, Nikolaos Klimis, Can Zulfikar, Dragos Vintila, Vladlen Cardanet, Emmanouil Kirtas, Dragos Toma-Danila, Basil Margaritis, Yasin Fahjan, Georgios Panagopoulos, Christos Karakostas, Georgios Papathanassiou, Sotiris Valkaniotis (2023): Rapid Earthquake Damage Assessment System to support Earthquake Response. Safe Attica 2023. Safe Greece Conference Proceedings. ISSN 2654-1823.
- Charalampos (Haris) Kontoes, Anastasios Anastasiadis, Georgios Panagopoulos, Constantinos Loupasakis, Konstantinos Chousianitis, Nikolaos Stathopoulos, Emmanouil Kirtas, Evi Riga, Kyriazis Pitilakis, Christos Karakostas, Sotiria Stefanidou, **Konstantinos Papatheodorou**, Elissavet Chatzicharalampous, Agavni Kaitantzian, Eleni Grigorakou (2023). The Application of a Holistic Methodology for the Seismic Risk Assessment in the Region of Attica, Greece. Safe Attica 2023. Safe Greece Conference Proceedings. ISSN 2654-1823.
- **Konstantinos Papatheodorou**, Nikolaos Theodoulidis, Nikolaos Klimis, Can Zulfikar, Dragos Vintila, Vladlen Cardanet, Emmanuel Kirtas, Dragos Toma-Danila, Basil Margaritis, Yasin Fahjan, Georgios Panagopoulos, Christos Karakostas, Georgios Papathanassiou, Sotiris Valkaniotis. Rapid Earthquake

Damage Assessment and Public awareness raising actions, towards enhancing Community Resilience and Cross Border cooperation for Earthquake disaster mitigation. Second (2nd) Hybrid (physical-virtual real-time) Workshop in "Innovative Seismic Protection and Structural/Community Resilience". Civil Engineering Department, Democritus University of Thrace (DUTH), Conference Center, Xanthi, Greece.

- **Konstantinos Papatheodorou**, E. Kirtas, N. Theodoulidis, N. Klimis, C. Zulfikar, Y. Fahjan, D. Toma-Danila, V. Dragos, V. Cardanet (2023): "Improving Earthquake Resilience with Decision Supporting Systems and focused on the Public, Education" INTERNATIONAL CONFERENCE "Protecting water resources with nature-based solutions" "PS4S-2023", 24-26 May 2023.
- Ntouros, K., **Papatheodorou, K.**, Gkologkinas, G., & Drimzakas-Papadopoulos, V. (2025). A Python Framework for Crop Yield Estimation Using Sentinel-2 Satellite Data. Earth, 6(1), 15. <https://doi.org/10.3390/earth6010015>
- Kourou A., Theodoulidis N., Konstantinidou K., Papanikolaou V., **Papatheodorou C.**, Kirtas E., Panagopoulos G., Nurlu M., Sezer S., Kuterdem K., Zulfikar C., Mert Tugsal Ü., Ergen V. (2025), "Earthquake Resilient Schools in High Seismicity Areas of Europe: The case of Greece-Türkiye Cross Border Area", Proceedings of the EGU General Assembly 2025, EGU25-15086, Vienna, Austria, 27 Apr–2 May 2025, <https://doi.org/10.5194/egusphere-egu25-15086>
- **Konstantinos Papatheodorou**, Alexandros Konstantinidis, Emmanuel, Kirtas, Nikolaos Theodoulidis, K. Chouvardas, Georgios Panagopoulos (2025): Integrating GIS and Public Engagement Tools for Seismic Risk Reduction. Actions for Formalizing Informal Constructions & Improving the Geospatial Ecosystems, Land Tools & Land Policies, Joint UNECE WPLA & REM, FIG Com3 & Com9, EGoS, WB Conference, 18-22 June 2025, Athens & Santorini
- **Papatheodorou, K.** et.al, (2025). Empowering Communities: Education for Improving Public Awareness and Response Capacity in Earthquake Emergencies. In: Radu, D., Hukić, M., Vaseashta, A. (eds) Countering Hybrid Threats Against Critical Infrastructures. ICSIMAT 2024. NATO Science for Peace and Security Series B: Physics and Biophysics. Springer, Dordrecht. [https://doi.org/10.1007/978-94-024-2304-4\\_6](https://doi.org/10.1007/978-94-024-2304-4_6).
- **Papatheodorou, K.** et al. (2025). Critical Infrastructures and Modern Societies. In: Radu, D., Hukić, M., Vaseashta, A. (eds) Countering Hybrid Threats Against Critical Infrastructures. ICSIMAT 2024. NATO Science for Peace and Security Series B: Physics and Biophysics. Springer, Dordrecht. [https://doi.org/10.1007/978-94-024-2304-4\\_1](https://doi.org/10.1007/978-94-024-2304-4_1)

## PERSONAL INFORMATION



## Konstantinos Papatheodorou

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[http://civilgeo.teicm.gr/userfiles/files/cv/conpap\\_cv\\_2018\\_en.pdf](http://civilgeo.teicm.gr/userfiles/files/cv/conpap_cv_2018_en.pdf)

Skype used ID: constant.pap1; VIBER, Whatsup (with cellphone number)

Sex Male | Date of birth 17/10/1959 | Nationality Hellenic (Greek)

## POSITION

Professor of Applied Geology & Geoinformatics, Civil Engineering and Surveying & Geoinformatics Engineering Department, Technological Educational Institute of Central Macedonia (TEICM), Hellas

## WORK EXPERIENCE

## Type of Business of Sector

Academic - Research

2004 to date

Staff member (currently Professor of Applied Geology & Geoinformatics) at the Technological Educational Institute of Central Macedonia, Hellas. Teaching Engineering Geology, Remote Sensing Principles & Applications (2 courses) and Contemporary Visualization Methods.

1990-2015

Research Expert and/or Coordinator in numerous (more than 50) Research projects. Involvement in project coordination and management; in applied geology (including engineering Geology; disaster prevention and management; groundwater exploration, protection and management); in Remote Sensing and GIS and in information technologies (mainly database and web systems development).

1986-2004

Freelance Geologist (Applied Geology &amp; Geoinformatics)

Twenty nine (29) professional surveys including Engineering Geological, hydrogeological, geophysical surveys applied in Civil Engineering and in the management and protection of natural resources and especially groundwater.

1997-2005

Holder of a C' class Designer's Degree (the highest class awarded to a physical person by the Hellenic Ministry of Public Works). Resigned the Degree as staff member of Serres TEI (2005).

## EDUCATION AND TRAINING

1977

Highschool graduate

1977-1981

Student of the Department of Geology, Aristotle University of Thessaloniki (AUTH), under scholarships for the entire period

1985-1990

Special Graduate Scholarship, PhD candidate Civil Engineering Department, AUTH

1991 PhD in Engineering Geology, Civil Engineering Department, AUTH (grade “excellent”)

1998 Proficiency in English, Michigan University

## PERSONAL SKILLS

Mother tongue(s) Greek

| Other language(s)                                                | UNDERSTANDING |         | SPEAKING           |                   | WRITING |
|------------------------------------------------------------------|---------------|---------|--------------------|-------------------|---------|
|                                                                  | Listening     | Reading | Spoken interaction | Spoken production |         |
| English                                                          | C1            | C1      | C1                 | C1                | C1      |
| Replace with name of language certificate. Enter level if known. |               |         |                    |                   |         |

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

**Communication skills** Excellent communication skills acquired through coordinating International Research projects, cooperation with foreign scientists, presentations of scientific work in conferences.

**Organisational / managerial skills** Leadership and Administration. Served as Head of the Geomatics & Surveying Department for five years (three terms), Head of the “Geographical Information Systems” sector of the Center of Technological research at Serres (Greece), member of various administrative Committees including the TEICM Special Account for Research Funds (currently Vice President).  
Project Coordination and Management of Research Projects (“SciNetNatHaz” project (EU funded and awarded as “Best Practice Project”), with large participation per project (up to 7 partners from 6 countries with more than 80 scientists involved).  
Development and Preparation of Proposals for funding (involving as many as 17 partners and 14 associated Organizations).

### Capability to Organize and carry out Scientific Research

**Brief Comments** Participated in more than 50 Research Projects most of which were competitive ones focused on basic and applied research (more details in [pages 5-8](#)).

**Recent Activities** Coordinator of the “SciNetNatHaz” project funded by the Black Sea Basin Joint Operational programme (BSB JOP) 2007-2013, with seven partners and more than 80 scientists coming from six different countries. The project was awarded as a “Best Practice” project by the Joint Managing Authority of the BSB JOP 2007-13 programme and was successfully completed (Nov. 2015) and closed (2022).  
Coordinator of the REDACT (“Rapid Earthquake Damage Assessment Consortium”) project (currently under implementation) funded by the Black Sea Basin Joint Operational programme (BSB JOP) 2014-2020, with six partners and more than 50 participating scientists.

Head of Institutional Research Team:

Project Title: ERASMUS+, KA2-Cooperation for Innovation and the exchange of Good Practices- Strategic Partnerships for Education. Project: Environmental Learning Innovation for more knowledge and better jobs-EnvYJobs”. Successfully completed (2018).

Senior Researcher in:

- Project Title: Mixed Reality and Geoinformatics for the demonstration of Monuments MERGIN’MODE (2020-22). Ongoing.
- Project Title: Rapid Earthquake Damage Assessment ConsorTium -REDACt (07 / 2020 – 31.12.2022). Ongoing.
- Project Title: Strengthening educational programs in Arts and Humanities through European methods and tools (STEM / ARTEST). Ongoing.
- Project title: Investigation of the hydrological regime and formation of the river flow of Acheloos, downstream of the Hydroelectric Stations of Kremasta, Kastraki and Stratos I and II, with the utilization of Geoinformatics technologies. Ongoing.
- Monitoring of experimental agricultural fields using GIS and Remote Sensing UAVs, Satellite Images), for the evaluation of qualitative and quantitative plant parameters. Ongoing
- Project title: Update of the Master Plan for flood projects in the areas of the Prefecture of Thessaloniki. Ongoing

#### Job-related skills-Educational

Teaching experience of more than fifteen years in graduate (more than eight courses) and post graduate (four) courses in four different higher education Institutions. Various lectures in numerous other cases (summer schools, lifelong learning etc).  
As Dissertation advisor supervised more than 100 undergraduate, 10 post graduate theses.

#### Job-related skills-Professional

Applied Geology; geologic mapping; engineering Geology; remote sensing applications; natural disaster prevention and management; groundwater exploration, management and protection; applied geophysical exploration (especially GPR mapping and refraction seismics), Geo-Informatics applications development.  
Skills acquired through more than 25 years of professional work (29 professional surveys, more than 50 applied research competitive projects and scientific research (various publications).  
Project Management and coordination in competitive international research projects.

#### Computer skills

Excellent computer skills, including “office” applications (Word, Excel, Powerpoint etc), “design” (Adobe Illustrator, ACD Canvas GIS, Corel Draw) applications as well as specialized geologic, Remote Sensing and GIS software including both commercial (ENVI, ArcGIS) and Open Source software (GRASS GIS, QGIS, Multispec, SNAP etc).

#### Driving licence

B

#### ADDITIONAL INFORMATION

#### Research Work

|                  |                                                        |    |
|------------------|--------------------------------------------------------|----|
| A brief overview | PhD theses and monographs:                             | 2  |
|                  | Publications in peer reviewed scientific journals :    | 16 |
|                  | Presentations in International Conferences (reviewed): | 37 |
|                  | Presentations in National (Hellenic) Conferences:      | 10 |
|                  | Other:                                                 | 2  |
|                  | Books/Teaching Notes:                                  | 5  |

### Recognition of the Scientific Work – Honorary Positions

**Forward** Recognition of the scientific work is evident by various indicators including Citations by other scientists (80+), honorary positions as are the “Chairmanship” of International Conferences, the participation in Editorial Boards of International Scientific Journals, the participation in Scientific Committees of International Conferences, invitations for plenary speeches and lectures, invitations for teaching in post graduate courses of other higher education Institutions, public press releases.

### Member of the Editorial Board of International Journals

- 2008-2015** Editorial Board of the International Journal of Geoinformatics from 2008 up to date (<http://journals.sfu.ca/ijg/index.php/journal/index> )
- Since 2017** Editorial Board of the International Journal Ovidius University Annals of Constanta – Series Civil Engineering

### Member of the Editorial Board of National Journals

- 2010-2015** Editorial Board of the scientific Journal Choro-graphies, of the Civil Engineering and Surveying & GeoInformatics Engineering Department, TEI of Central Macedonia  
<http://www.teicm.gr/geoplr/ojs/index.php/Chorografies/about/editorialTeam>

### President (Chairman) of the Scientific Committee of International Conferences

- 2016** 3<sup>rd</sup> International Conference on “Water Across Time in Engineering Research”, June 2016, Constanta, Romania.
- 2018** 4<sup>th</sup> International Conference on “Water Across Time in Engineering Research”, July 2018, Constanta, Romania.

### Member of the Scientific Committee of International Conferences

- 2010** Member of the Scientific Committee and Session Chairman/Moderator of the 1st International Conference on “Green Infrastructure, Transportation and Networks”, November 2010, Thessaloniki, Greece.
- 2012** Member of the Scientific Committee and Session Chairman/Moderator of the 2nd International Conference on “Green Infrastructure”, November 2012, Thessaloniki, Greece.  
Member of the Scientific Committee and Session chairman/Moderator at the BENA 2012 Istanbul Conference (21-24 June 2012): Sustainable Landscape Planning and Safe Environment, Istanbul, Turkey 2012
- 2014** Member of the Scientific Committee and Session Chairman/Moderator of the International Medical Conference “Environment and Public Health- MED ENV 2014”, September 2014, Constanta, Romania.

Member of the Scientific Committee and Session Chairman/Moderator at the International Conference AQUALIRES 2014 “New tools for sustainable management of aquatic resources” Special Session for Natural hazards, Bucharest Romania, 2014.

- 2015 Co-convenor at the European Geosciences Union - EGU2015, EGU General Assembly, Vienna Austria, April 2015. Session: HS7.6 Climate and Environmental Change: Long Term Planning for Hydro-Engineering and Water Resources Infrastructure.

### Reviewer of International Journals

- Since 2017 Water — Open Access Journal (ISSN 2073-4441; CODEN: WATEGH). WATER CiteScore 2017 (Scopus): 2.29, which equals rank 37/191 (Q1) in the category 'Water Science and Technology' and 43/199 (Q1) in 'Aquatic Science' (<https://www.mdpi.com/journal/water>).
- Since 2017 Geosciences (ISSN 2076-3263; CODEN: GBSEDA) an interdisciplinary, international peer-reviewed open access journal of geoscience, future earth and planetary science published monthly online by MDPI. (SCImago H Index 12, Earth and Planetary Sciences (miscellaneous) (Q2)).
- Hydrology — Open Access Journal (ISSN 2306-5338) which is an international peer-reviewed open access journal of hydrology published quarterly online (<https://www.mdpi.com/journal/hydrology>).
- Since 2017 International Journal of Advanced Robotics and Automation (ISSN: 2473-3032 Journal DOI: 10.15226/2473-3032/)
- Since 2015 Hydrological Sciences Journal, Taylor & Francis, International Association of Hydrological Sciences (IAHS) <http://www.tandfonline.com/toc/thsj20/current>. (SCImago Water Science & Technology (Q1)).
- Since 2008 International Journal of Geoinformatics (SCImago Earth & Planetary Sciences (Q3) and Geography, Planning and Development (Q3)) <http://journals.sfu.ca/iig/index.php/journal/index>

### Reviewer of National Journals

- Since 2010 Scientific Journal “Choro-grafies” of the Civil Engineering and Surveying & GeoInformatics Engineering Department of TEI of Central Macedonia, <http://www.teicm.gr/geoplir/ojs/index.php/Chorografies>. ISSN: 1792-3913.
- Since 2014 Scientific Journal “AeiChoros”, of the Department of Planning and Regional Development University of Thessaly, Greece) <http://www.aeihoros.gr/> [87]

### Awards

- 2017 **Best Performance and Content Award** in the Presentation Sessions of the International UAB-BENA Conference “Environmental Engineering and Sustainable Development”, Alba Iulia, Romania May 25-27, 2017 (for the Conference Presentation Konstantinos Papatheodorou, Konstantinos Ntouros, Alexandros Konstantinidis, “REMOTE SENSING FOR CROP MANAGEMENT: A NEW SERVICE MARKET TO PROMOTE MODERNIZATION OF AGRICULTURE”)
- 2014 As Project Coordinator and Manager of the project called “A Scientific Network for Earthquake, Landslide and Flood Hazard Prevention - SciNetNatHaz” which was awarded as a “**Best Practice Project**” by the Joint Managing Authority of the Black Sea basin JOP 2007-13 programme.

- 2014 **Third best oral presentation** at the International Conference “Environment and Public Health – MedENV 2014”, Constanta, Romania for the paper:  
\*Konstantinos A. Papatheodorou, Konstantinos Evangelidis, Konstantinos D. Ntoursos (2014): Applied Research for protection and management of Groundwater resources using contemporary technologies. 1st International Medical Conference “Environment and Public Health – MedENV 2014”, Constanta, Romania.
- 1985-1990 PhD scholarship (“Special Post-Graduate Scholarship”).
- 1977-1981 Graduate studies under scholarships throughout the entire period (four years)

### Public Press Releases ( Mass Media, newspapers & electronic Press)

Google search (29.05.2015) presents 124.000 search results about my investigation in Amfipolis (Greece). Additionally, there are numerous press releases in newspapers and mass media.

- Research Interests
- Applied Geology in Civil Engineering (Engineering Geology)
  - Applied Geology in natural resources management and protection (focused on groundwater)
  - Natural Disaster Prevention and Management
  - Environmental impact of Climatic change
  - Remote Sensing
  - Geographical information Systems: Development and Applications
  - Applied geophysics focused on Ground Penetrating radar (GPR) and refraction seismics
  - Harmonization and Cross Border Cooperation policies

### Involvement / Role

### Research Experience (Participation in Basic & Applied Research projects)

- 1990 - to date Participation in more than fifty (50) competitive research projects funded by various resources including National and International, as senior expert and as Coordinator/Manager. During the last five years coordinated three competitive International Projects with a total budget exceeding 2 mil euros.
- Senior Expert. Applied Geology – Hydrogeology – Remote Sensing Groundwater aquifer research in Aravissos area for the water supply of the city of Thessaloniki (1990-1993)
- Senior expert. Applied Geology – Hydrogeology & geophysics Research for investigation the pollution of exploitable aquifers of the plain of Thessaloniki-Giannitsa (1990-1993)
- Senior expert. Applied Geology – Hydrogeology & geophysics Research for investigation the pollution from surface water, of the exploitable (Organization for the Water supply of Thessaloniki) aquifers of the Sindos-Kalochori area (1992-1993)
- Senior expert. Applied Geology – Hydrogeology Investigation of the geothermal areas in Chalkidiki (1990-1993)
- Senior expert. Geophysical Research responsible. Applied geophysics – GPR Investigation for locating and mapping buried antiquities in the archaeological site of Dion (1992)

|                                                                                            |                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Senior expert. Engineering geology                                                         | Geologic-Geotechnical investigation of the main geologic formations in the Aristotle University of Thessaloniki area (1990)                                                           |
| Senior expert. Applied geology-Hydrogeology                                                | Mathematical Modeling of the hydrogeologic conditions in Mygdonia basin                                                                                                               |
| Senior expert. Engineering geology & applied geophysics                                    | Geological-Geotechnical investigation of part of Egnatia road axis in Pindos area (part of the project "Slope safety in road networks and large construction", 1995).                 |
| Senior expert. Engineering geology & applied geophysics. Geophysical Research responsible. | Geoseismic profiles on the foundation sites of Alikianos and Valsamiotis rivers dams, Western Crete                                                                                   |
| Senior expert. Applied Remote Sensing                                                      | Remote Sensing data processing (from airplanes and satellites) for the investigation of the hydrogeologic regime of Crete (1993-1994)                                                 |
| Senior expert. Applied Remote Sensing, GIS, Cartography                                    | Remote Sensing of the mountainous zone of Kalambaka-Pyli, Thessaly, (1994-1995).                                                                                                      |
| Senior expert. Applied geology-Hydrogeology, applied Geophysics                            | Groundwater in the Polytechnic School of AUTH (1995).                                                                                                                                 |
| External expert. Remote Sensing, applied geology                                           | Remote Sensing of the tectonic graben of "Ptolemaida-Sarigiol" (Western Macedonia, Greece), 1995-1996.                                                                                |
| External expert. Engineering geology                                                       | Geological-Geotechnical investigation of Thessaloniki-Polygyros road axis (1996).                                                                                                     |
| Senior expert. Applied Geophysics, applied geology                                         | Geophysical investigation of "Sarigiol" basin for the selection of sites for the construction of groundwater extraction wells (boreholes), 1996-1997.                                 |
| Senior expert. Applied Geophysics, remote sensing                                          | Geophysical exploration for the tectonic investigation of the northern slopes of Mavropigi mine (1997).                                                                               |
| Senior expert. Remote sensing & engineering geology                                        | Geotechnical surveys for the improvement of the railroad axis Plati-Amyndaio-Florina-Kozani, Florina-Krystallopigi and Veroia-Kozani (1997-1998).                                     |
| Senior expert. Engineering geology                                                         | Technical Specification for the use of hard aggregates for asphalt pavement construction – location of potential quarrying sites for the abstraction (quarrying) of aggregates (1998) |
| External expert. Applied Hydrogeology                                                      | Supervision of eight borings in "Sarigiol" (Kozani) area (1998)                                                                                                                       |
| Senior expert. Geo-Database construction, applied remote sensing, Hydrogeology             | Groundwater Protection and Management of the plain of Trikala, Thessaly (1998-1999).                                                                                                  |
| Senior expert. Geophysical research responsible. Engineering geology & applied geophysics. | Underground geophysical-geotechnical investigation of Chalepa area, Chania, Crete (1999-2000)                                                                                         |

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|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Senior expert. Geo database development. Remote Sensing                                                | Research for the identification of exploitable aquifers in the eastern part of Thessaloniki and development of an electronic database for the water production wells of EYATH (Water supply company of Thessaloniki) in the areas of Brova, Foenix, Mikra, kalamaria and Ryssio (2000-2001) |
| Senior Expert. Engineering geology & applied geophysics                                                | Underground Geophysical-Geotechnical investigation of the northern part of Chania prefecture, Crete (2000-2001)                                                                                                                                                                             |
| Senior Expert. Engineering geology & applied geophysics                                                | Geotechnical stabilization and landscape development of the monument of Augustus in Nikopolis, Greece (2002).                                                                                                                                                                               |
| Senior Expert. Remote Sensing, GIS. Remote sensing & applied geology                                   | Field and laboratory research for defining three borehole construction locations on Chortiatis mountain for the water supply of Chortiatis municipality (2002).                                                                                                                             |
| Coordinator, applied Geology, remote sensing                                                           | Hydro-lithologic with hydrogeologic data, map construction for the river Strymon basin, at a 1:100.000 scale (2007)                                                                                                                                                                         |
| Senior Expert. Remote Sensing, GIS                                                                     | Development of a mechanism for the identification and tracking/control of diseases transmitters to humans and animals and development of a river and drinking water monitoring network in the prefecture of Serres (2009).                                                                  |
| Coordinator, applied Geology, remote sensing                                                           | Hydro-lithologic with hydrogeologic data, map construction for the Mygdonia basin, at a 1:100.000 scale (2009)                                                                                                                                                                              |
| Senior Expert. Task responsible. Engineering Geology, GIS application (in landslide hazard assessment) | Investigation on the potential semi-mountainous bypass of Lechonia Municipality of Artemida (2007).                                                                                                                                                                                         |
| Coordinator, applied Geology, remote sensing                                                           | An investigation of the Engineering Geological conditions along the Exaplatanios-Mandalo road axis, Pella Prefecture (2008)                                                                                                                                                                 |
| Senior expert. Remote Sensing & GIS                                                                    | Geographic Information System development for the Technical Services of Kalamaria municipality, Thessaloniki (2008).                                                                                                                                                                        |
| Senior expert. Engineering geology, GIS                                                                | Prevention, response and management of earthquake and other hazards on a part of the Florina-Krystallopigi road axis (2010).                                                                                                                                                                |
| Task responsible. Engineering geology & GIS                                                            | Investigation for the optimization of the geometry of the Roads N.16a and N.16b (Iasmos-Eythymo), of Rhodopi prefecture (2010)                                                                                                                                                              |
| Task responsible. Engineering geology & GIS                                                            | Investigation for the optimization and improvement of Road N.13a Sostis-Kerasia of Komotini prefecture (2010).                                                                                                                                                                              |
| Task responsible. Engineering geology & GIS                                                            | Investigation for the optimization and improvement of Road N.4c Myrtiski-Kalyvia-Cloi crossing of Komotini prefecture (2010).                                                                                                                                                               |

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|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Task responsible. Engineering geology & GIS                          | Investigation for the optimization and improvement of Maronia-Petrota-Evros prefecture border (2010).                                                                               |
| External expert. Remote Sensing & GIS                                | Geographical Information System of the City of Xanthi, Hellas (2010)                                                                                                                |
| Senior Researcher, Engineering Geology, Remote Sensing & GIS         | Geoinformation technology application in drought risk assessment (2012).                                                                                                            |
| External expert. Engineering geology, Remote Sensing & GIS           | “Risk Management of Natural and anthropogenic Landslides in the Greek-Bulgarian border area” (INTERREG III project) (2010-2011).                                                    |
| Coordination & Management. Engineering Geology, Remote Sensing & GIS | A Scientific Network for Earthquake, Landslide and Flood Hazard prevention – SciNetNatHaz. A project funded by the Black Sea basin Joint Operational Programme 2007-13 (2013-2015). |
| Senior Researcher, Geoinformatics & Remote Sensing                   | Mixed Reality and Geoinformatics for the demonstration of Monuments MERGIN’MODE. Funded by ESPA (Hellenic State funds)                                                              |
| Coordination & Management. Engineering Geology, Remote Sensing & GIS | Rapid Earthquake Damage Assessment Consortium (REDACT). A project funded by the Black Sea basin Joint Operational Programme 2014-20 (07 / 2020 – 31.12.2022)                        |
| Coordination & Management. Engineering Geology, Remote Sensing & GIS | Earthquake Resilient Schools (EReS). A project funded by the Union Civil Protection Mechanism – UCPM (03/2023-08/2024) .                                                            |

### Educational Projects funded by the Special Account for Research Funds

|                                                                          |                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Head of the Department, Assistant Professor, member of the research team | “Reformation of Undergraduate Studies Program of the Department of Geomatics & Surveying Department”, Technological Educational institute of Serres, Hellas. Position: Head of the Department, Assistant Professor, member of the research team (2008-09) |
| Head of the Department, Assistant Professor, member of the research team | “Undergraduate Courses”, Department of Geomatics & Surveying TEI of Serres (2008-09)                                                                                                                                                                      |
| Head of the Department, Assistant Professor, Author                      | “Occupations Guide of TEI of Serres” (2010)                                                                                                                                                                                                               |
| Contributor, co-author                                                   | “Business Plan for the Lifelong Learning Institute” at the TEI of Serres (2010)                                                                                                                                                                           |
| Contributor                                                              | “Practical training (traineeship)” of Serres TEI students (2013)                                                                                                                                                                                          |
| Author, Lecturer of Cartography and of GIS (two courses)                 | “Programme for updating graduates knowledge” (2015)                                                                                                                                                                                                       |
| Lecturer and Author                                                      | “Open Academic Courses” (in Applied Remote Sensing)                                                                                                                                                                                                       |

Lecturer and Author of e-lessons, e-books and video-labs

ERASMUS+, KA2-Cooperation for Innovation and the exchange of Good Practices- Strategic Partnerships for Education. Project: Environmental Learning Innovation for more knowledge and better jobs-EnvYJobs”

ARTEST

## PUBLICATIONS

### Theses and Monographs

Papatheodorou K. (1991): Contribution to the study of expanding volcanic rocks. PhD thesis, Engineering Geology laboratory, Civil Engineering Department, Aristotle University of Thessaloniki.

Papatheodorou K. (2007): Ground surveying with Ground Penetrating radar: the SIR300 system, GSSI. Geomatics and Surveying Department, TEI of Serres, ISBN 978 960 88247-9-9

### Publications in peer reviewed Scientific Journals

- 2023 **Papatheodorou, K.**; Theodoulidis, N.; Klimis, N.; Zulfikar, C.; Vintila, D.; Cardanet, V.; Kirtas, E.; Toma-Danila, D.; Margaritis, B.; Fahjan, Y.; et al. Rapid Earthquake Damage Assessment and Education to Improve Earthquake Response Efficiency and Community Resilience. Sustainability 2023, 15, 16603. <https://doi.org/10.3390/su152416603>.
- 2021 **Konstantinos Papatheodorou (2021):** “Applied Geology and Geoinformatics for GroundWater Exploration, Protection and Management” in: Vaseashta A, Maftai C (eds) Water safety, security and sustainability. Advanced sciences and technologies for security applications. Springer, Cham
- 2020 **Papatheodorou K.A.**, Evangelidis K.E. (2020) Planning for Groundwater Protection: Monitoring Systems & Data Requirements. In: Sidorenko A., Hahn H. (eds) Functional Nanostructures and Sensors for CBRN Defence and Environmental Safety and Security. NATO Science for Peace and Security Series C: Environmental Security. Springer, Dordrecht.
- 2018 **Papatheodorou, K.**, Veranis N. (2018). Geomatics Technologies for Groundwater prospecting in hard rocks. Journal of Environmental Protection and Ecology 19, No 3, 1421–1430 (2018).
- 2018 Evangelidis, K., Papadopoulos, T., **Papatheodorou, K.**, Mastorokostas, P., & Hilas, C. (2018). 3D geospatial visualizations: Animation and motion effects on spatial objects. Computers & Geosciences, 111, 200-212. <https://doi.org/10.1016/j.cageo.2017.11.007>
- 2017 **K. Papatheodorou**, K. Evangelidis and K. Ntouros (2017): Geomatics for Environmental Protection and Management. Journal of Environmental Protection and Ecology (JEPE), Vol. 18, No.1, pp.168-180 (2017).
- 2015 C. Maftai and **K. Papatheodorou** (2015): Flash Flood prone area Assessment using Geomorphological and Hydraulic Models. Journal of Environmental Protection and Ecology (JEPE), Vol. 16, No.1 (2015). (<http://www.jepe-journal.info/home/vol-16-no-1-2015>)
- 2014 K. Evangelidis, K. Ntouros, **K. Papatheodorou**, A. Konstantinidis, K. Perakis (2014): Geoclouds for Environmental Management, Journal of Environmental Protection and Ecology (JEPE), Vol. 15, No.2 (2014).

- 2014 **K. Papatheodorou**, N. Klimis, B. Margaritis, K. Ntouro, K. Evangelidis, A. Konstantinidis (2014): "An Overview of the EU Actions towards Natural Hazard Prevention and Management: Current Status and Future Trends", Journal of Environmental Protection and Ecology (JEPE), Vol. 15, No.2 (2014).
- 2014 **Papatheodorou, K.**, & Evangelidis, K., "Protecting and preserving ground water with monitoring systems and vulnerability maps." (2014): In A. Vaseashta, P. Susmann & E. Braman (Eds.), "Cyber Security and Resiliency Policy Framework: NATO Science for Peace and Security Series - D: Information and Communication Security" - Vol. 38 (pp. 135-145). Netherlands: IOS Pres. DOI: 10.3233/978-1-61499-446-6-135, 2014.
- 2013 Konstantinos Evangelidis, Konstantinos Ntouro, Stathis Makridis and **Constantine Papatheodorou** (2013): "Geospatial Services in the Cloud", Computers and Geosciences, v.63, Feb. 2014, pp. 116-122, Elsevier, 2013.
- 2011 Charidimos Pappas, **Konstantinos Papatheodorou**, Ioannis Fountoulis (2011): Flood Hazard assessment in the city of Serres (Greece) using morphometric and hydraulic models. Choro-graphies, Vol. 2, Nr.2, pp. 89-97, 2011.
- 2011 Filippidis E. and **Papatheodorou K.** (2011): "Forest ecosystem data management through WebGIS with application in Elatia forest, Greece". Fresenius Environ. Bull. ISSN: 1018-4619
- 2010 **K. Papatheodorou**, N. Veranis and N. Patsiaros (2010): Groundwater vulnerability in the plain of Emathia prefecture. An implementation of the DRASTIC methodology. Choro-graphies, Vol. 1, Nr.1, pp. 17-24, Serres, 2010, ISSN: 1792-3913.
- 2008 **Papatheodorou K.**, Evangelidis K., Symeonidis P. and Kaskalis T. (2008): "Applying Dynamic Segmentation and Linear Referencing Systems over the Web", International Journal of Geoinformatics, Vol.4, No3, pp. 1-8, Sept. 2008.
- 1993 **Papatheodorou K.**, Meladiotis I. (1993): A method for perlite quality assessment for producing expanded perlite. Mining & Metallurgical Chronicles, Jan-March 1993, Vol.3, Issue 1, pp. 27-38.
- 1993 Meladiotis I, **Papatheodorou K.** and Bakassis E. (1993): A proposed technique for locating brakish water aquifers during the first drilling stages in Thessaloniki plain. Mineral Wealth, No83, March-April 1993, pp. 51-58.
- 1992 Ericsson, T. & Papatheodorou, Konstantinos & Sklavounos, S. & Filippidis, Anestis. (1992). Oxidation state of biotite from heated perlite samples from Chivadolimni deposits in Milos Island, Greece. Neues Jahrbuch für Mineralogie - Monatshefte. 1. 1-12.

### Presentations in International Conferences (peer reviewed)

- 1994 Meladiotis I., **Papatheodorou K.** and Popa I. (1994): Distribution in time and space of the Chloride ion concentration in the exploitable aquifers in the eastern part of the Plain of Thessaloniki (Greece). (Proceedings of the International Hydrogeological Symposium "Impact of Industrial Activities on Groundwater, Constanta, Romania, pp.617-632).
- 1994 Meladiotis. I., **Papatheodorou K.** and Ion D. (1994): Identification, dimensioning and detemination of the geometry of subsurface discontinuities in rocks by Radar profiling. (International Symposium "Geological Engineering and Environment Protection", Bucharest, Romania, pp. 193-205).
- 2007 **C. Papatheodorou**, N. Klimis, Pr. Moutsokapas, S. Koutrakis and B. Margaritis (2007): Geotechnical Earthquake hazard assessment based on a GIS platform. 4<sup>th</sup> International Conference on Earthquake Geotechnical Engineering, June 25-28 2007, Thessaloniki, Greece. (Accepted paper No.1441)

- 2008 **Papatheodorou C.**, Konstantinidis A and Mouratidis E. (2008): Combining Geographical Information Systems and Geo-Engineering Education. Practical aspects and lessons learned at TEI of Serres (Greece). First International Conference on Education and Training in Geosciences. Soil Mechanics and Geotechnical Engineering, Rock Engineering Engineering Geology. Taylor & Francis, Balkema Pub.
- 2008 **Papatheodorou C.**, Papazisi A. (2008): Engineering Geological Education at TEI Practical aspects from Civil Engineering Department at TEI of Serres (Greece). First International Conference on Education and Training in Geosciences. Soil Mechanics and Geotechnical Engineering, Rock Engineering Engineering Geology. Taylor & Francis, Balkema Pub.
- 2008 **Papatheodorou C.**, Konstantinidis A., Perakis. K. (2008): Remote sensing in Higher Education. Practical aspects and lessons learned from Geomatics & Surveying Dept. at Serres Technological Education Institution. 28th EARSEL Symposium. Istanbul/Turkey 2-7 June 2008.
- 2008 **Papatheodorou K.**, Evangelidis K. (2008): GroundWater Information System. A digital tool for groundwater resources protection and management. 4rth International Environmental Conference "Life quality and capacity building in the frame of a safe Environment", Balkan Environmental Association, Katerini, Greece.
- 2010 **Papatheodorou C.** (2010): GroundWater flow paths delineation using Remote Sensing techniques and GIS. 30th EARSEL Symposium, Remote Sensing for Science, Education, Natural and Cultural Heritage, June 2010, Paris, France.
- 2010 **Papatheodorou C** (2010): Δορυφορική Τεχνολογία και Γεωγραφικά Συστήματα Πληροφοριών στην προστασία και διαχείριση των Υπόγειων Νερών. (Παρουσίαση στα Αγγλικά). 1ο Διεθνές Συνέδριο στην Πράσινη Ανάπτυξη. 1st International Conference on Green Infrastructure "the New Generation of Green Infrastructure Projects". Alexandrian Technological Institute of Thessaloniki, Thessaloniki, Greece, Nov. 2010.
- 2012 **Konstantinos Papatheodorou**, Konstantinos Ntouro, Elias Grinias and Dimitrios Kotzinos (2012): Incorporating free/open source software in Remote Sensing Education. Pros and Cons from teaching Applications in Remote Sensing. 32nd EARSEL Symposium, "Advances in Geosciences", Mykonos, Greece.
- 2012 **Konstantinos Papatheodorou**, Dimitrios Theocharis and Ioannis Fountoulis (2012): A Remotely Sensed contribution to the Western Attica (Greece) tectonic Geology. 32nd EARSEL Symposium "Advances in Geosciences", 4rth Workshop on Remote Sensing and Geology, Mykonos, Greece.
- 2012 **Konstantinos Papatheodorou**, Nikolaos Veranis and Konstantinos Evangelidis (2012): «Remote Sensing and Geomatics technologies to support Ground Water sustainability». The Balkan Environmental International Conference in Istanbul, 21-23 June 2012.
- 2012 Konstantinos Ntouro & **Konstantinos Papatheodorou** (2012): «Advances in field GIS – A Cloud GI System». The Balkan Environmental International Conference in Istanbul, 21-23 June 2012.
- 2012 **Konstantinos Papatheodorou** and Nikolaos Veranis (2012): «Groundwater pollution risk assessment to support decision making regarding Land Use Planning», 2nd International Conference on Green Infrastructure "The New generation of Green Infrastructure Projects", Alexandrian Technological Institute of Thessaloniki, Thessaloniki, November 2012.
- 2013 **Papatheodorou, K.** (2013): Protecting and preserving ground water with monitoring systems and vulnerability maps."Best practices and Innovative Approaches to Develop Cyber Security and Resiliency Policy Framework", NATO advanced Research Workshop, Ohrid, FYROM, June 10-12, 2013.

- K. Papatheodorou**, L. Tofan, G. Stanciu, D.T. Epure, Z. Prefac, M. Lungu, I. Moise, L. Panaitescu, M. Arpent, B. Trantafyrescu, M. Golumbeanu, C. Constantin, T.J. Erlinger (2013): A Scientific Network for the Prevention of Environmental Hazards in the Black Sea Basin. Improving Governance, Management and Building Capacities. International Conference "Marine Research Horizon 2020 – MARES 2020, 17-20 Sept. 2013, Varna, Bulgaria.
- 2014 **Papatheodorou Konstantinos**, Klimis Nikolaos, Ntours Konstantinos, Evangelidis Konstantinos, Konstantinidis Alexandros (2014): "Natural hazard Prevention and Management in the wider Black Sea area: The SciNetNatHaz Project", International Conference AQUALIREs 2014 "New tools for sustainable management of aquatic resources" Special Session for Natural hazards, Conference Proceedings, Bucharest 2014.
- 2014 Evangelidis Konstantinos, Ntours Konstantinos, **Papatheodorou Konstantinos**, Konstantinidis Alexandros (2014): "GeoClouds for Environmental Management", International Conference AQUALIREs 2014 "New tools for sustainable management of aquatic resources", Conference Proceedings, Bucharest Jan. 2014.
- 2014 **Konstantinos A. Papatheodorou**, Eleni A. Tzanou, Konstantinos D. Ntours (2014): Flood Hazard prevention using Morphometric and Hydraulic models. An example implementation. Green Infrastructure and Sustainable Societies (GreInSus) International Conference, May 2014, Izmir, Turkey.
- 2014 H. Aksoy, V.S.O. Kirca, **K. Papatheodorou** (2014): Flood Hazard Assessment and Modelling Practices in Turkey. Proceedings of the Mediterranean Meeting on " Monitoring, modelling and early warning of extreme events triggered by heavy rainfalls " . PON 01\_01503 - MED-FRIEND project, University of Calabria, Cosenza (Italy), June 26th-28th, 2014
- 2014 **Konstantinos Papatheodorou**, Konstantinos Evangelidis, Konstantinos D. Ntours (2014): Applied Research for protection and management of Groundwater resources using contemporary technologies. 1st International Medical Conference "Environment and Public Health – MedENV 2014", Constanta, Romania. This paper was awarded as the 3<sup>rd</sup> best oral presentation of the Conference
- 2014 Carmen Maftei, **Konstantinos Papatheodorou** (2014): Mapping the Flash Flood prone area in the Taita river watershed (Romania) using Topographic Indexes and Hydraulic Models. Second International Conference on Natural and Anthropogenic Riisks ICNAR 2014, 04-07 June 2014, Bacau Romania.
- 2015 **Papatheodorou Konstantinos**, Tzanou Elena, Maftei Carmen, Kirca Ozgur and Aksoy Hafzullah (2015): Towards flash flood disaster prevention: the SciNetNat Haz proposal. Geophysical Research Abstracts, Vol. 17, EGU2015-15176, 2015, EGU General Assembly 2015.
- 2015 **Papatheodorou Konstantinos**, Tzanou Elena, Maftei Carmen, Kirca Ozgur and Aksoy Hafzullah (2015): Earthquake, Landslide and Flood disaster prevention: The SciNetNatHaz Project. International Conference "Frontiers in Environmental Management 2015", Kavala, Greece, March 2015.
- 2015 **Konstantinos Papatheodorou**, Konstantinos Evangelidis, Konstantinos Ntours (2015): An Integrated approach to promote GroundWater Sustainability. International Conference "Frontiers in Environmental Management 2015", Kavala, Greece, March 2015. [
- 2015 V.S. Ozgur Kirca, Hafzullah Aksoy, **Konstantinos Papatheodorou** & Katia Stepanova, (2014): "LEGISLATIVE ASPECTS OF FLOOD HAZARD PREVENTION AND RESILIENCE IN NON EU MEMBER EUROPEAN COUNTRIES", 9th World Congress of EWRA "Water Resources Management in a Changing World: Challenges and Opportunities" Istanbul, Turkey, 24th-27th June 2015, 2015.

- 2016** **Konstantinos Papatheodorou**, E. Tzanou, C. Maftai, O. Kirca, H. Aksoy, K. Ntouro (2016): Harmonized Flood Hazard & Risk Assessment. 3rd International Conference “Water across Time in Engineering Research”, Constanta, Romania. Conference proceedings and Ovidius University Annals Series: Civil Engineering, Issue 18, October 2016.
- Konstantinos Papatheodorou**, Nikolaos Veranis (2016): Geomatics Technologies for Ground Water Prospecting in Hard Rocks. 3rd International Conference “Water across Time in Engineering Research”, Constanta, Romania. Conference proceedings and Ovidius University Annals Series: Civil Engineering, Issue 18, October 2016.
- Konstantinos Evangelidis, **Konstantinos Papatheodorou** and Anastasios Agrianidis (2016): Geospatial data dissemination in geographically specific EU Operational Programmes. 3rd International Conference “Water across Time in Engineering Research”, Constanta, Romania. Conference proceedings and Ovidius University Annals Series: Civil Engineering, Issue 18, October 2016.
- N. S. Klimis, **K. A. Papatheodorou** and B. N. Margaris (2016): Landslide Hazard Assessment in Regional Scale: Implementation and Reliability. 3rd International Conference “Water across Time in Engineering Research”, Constanta, Romania. Conference proceedings and Ovidius University Annals Series: Civil Engineering, Issue 18, October 2016.
- Konstantinos Papatheodorou**, Konstantinos Evangelidis, Konstantinos Ntouro (2016): Geomatics for Environmental Protection & Resource Management. 6th Int. Conference entitled: “Protection of Natural Resources and Environmental Management: The main Tools for Sustainability”. International Conference “Protection of Natural Resources and Environmental Management: The main Tools for Sustainability- PRONASEM2016”, November 2016, Bucharest, Romania.
- Konstantinos Evangelidis, Theofilos Papadopoulos, **Konstantinos Papatheodorou** and Panagiotis Papaioannou (2016). Combining WEB - GEO Services for Mobility Smart Applications. European Conference on Mobility Management, ECOMM 2016, June 1-3 2016, Athens GREECE
- 2017** **Papatheodorou K.**, Ntouro K., Konstantinidis A. (2017): Remote Sensing for Crop Management: a New Service Market to promote Modernization of Agriculture. International Conference on Environmental Engineering & Sustainable Development, Alba Iulia, Romania. *This paper was awarded as the best performance & Content presentation in the Conference.*
- 2018** K. **Papatheodorou**, C. Sarantis, K. Ntouro and A. Konstantinidis (2018): ASTER DEM for calculating Hydrologic Indices. International Conference “Water in Engineering Research-WATER 2018”, Constanta, Romania, June 2018.
- K. **Papatheodorou** (2018):Teaching Flood Hazard Assessment to ERASMUS+ students. Lessons learned from the ERASMUS+ “envYJobs” Project. International Conference “Water in Engineering Research-WATER 2018”, Constanta, Romania, June 2018.
- C. Sarantis, K. Evangelidis & K. **Papatheodorou** (2018): Natural Disasters modeling over a python-based WebGIS platform. International Conference “Water in Engineering Research-WATER 2018”, Constanta, Romania, June 2018.
- 2019**

**2020** **Konstantinos A. Papatheodorou** (2020): Rapid Earthquake Damage Assessment and information dissemination for Earthquake Disaster Risk Mitigation. Invited Keynote Speech at the Civil Engineering and Building Services - CIBv2020 International Scientific Conference, Brasov, Romania.

**2021** **Konstantinos Papatheodorou**, Nikolaos Klimis, Basil Margaris, K. Ntouros (2021) : Improving the infinite slope model outputs for Regional Landslide Hazard Assessment. . Invited Keynote Speech at the Civil Engineering and Building Services - CIBv2021 International Scientific Conference, Brasov, Romania.

**Konstantinos Papatheodorou** (2021): Improving Earthquake Emergency Response with Decision Supporting Systems – the Redact Example. Eighth (8<sup>th</sup>) International Conference on Civil Protection & New Technologies SAFE GREECE 2021, 24 - 26 November, ON-LINE.

Nikolaos Klimis, George Papathanassiou, Georgios Panagopoulos, Emmanouil Kirtas, Christos Karakostas, **Konstantinos Papatheodorou** (2021): REDA SYSTEM: EARTHQUAKE TRIGGERED GEOTECHNICAL HAZARD AND RISK ASSESSMENT OF BUILDING STOCK IN BLACK SEA BASIN CROSS-BORDER AREAS. Eighth (8<sup>th</sup>) International Conference on Civil Protection & New Technologies SAFE GREECE 2021, 24 - 26 November, ON-LINE.

**2022** Charalampos (Haris) Kontoes, Anastasios Anastasiadis, Georgios Panagopoulos, Constantinos Loupasakis, Konstantinos Chousianitis, Nikolaos Stathopoulos, Emmanouil Kirtas, Evi Riga, Kyriazis Pitilakis, Christos Karakostas, Sotiria Stefanidou, **Konstantinos Papatheodorou**, Elissavet Chatzicharalampous, Agavni Kaitantzian, Eleni Grigorakou. Seismic Risk Assessment in the Region of Attica, Greece. Ninth (9<sup>th</sup>) International Conference on Civil Protection & New Technologies SafeThessaloniki, 29 September - 1 October, Thessaloniki, Greece. SafeThessaloniki 2022 Proceedings, ISSN 2654-1823.

**Konstantinos Papatheodorou**, E. Kirtas, K. Ntouros, G. Panagopoulos, P. Gakos, N. Theodoulidis, N. Klimis (2022): Education & Tools to Support Public Response in Earthquake Emergencies: the Redact Educational Hub. Ninth (9<sup>th</sup>) International Conference on Civil Protection & New Technologies SafeThessaloniki, 29 September - 1 October, Thessaloniki, Greece. SafeThessaloniki 2022 Proceedings, ISSN 2654-1823.

Klimis Nikolaos, **Papatheodorou Konstantinos**, Sotiriadis Dimitis, Basil Margaris (2022) : Improvement of the Infinite Slope Model and its Implication in Fragility Curves Regarding Seismic Cut Slope Stability. 3rd EUROPEAN CONFERENCE ON EARTHQUAKE ENGINEERING & SEISMOLOGY BUCHAREST, ROMANIA, 2022

**2023** **Konstantinos Papatheodorou**, Nikolaos Theodoulidis, Nikolaos Klimis, Can Zulfikar, Dragos Vintila, Vladlen Cardanet, Emmanouil Kirtas, Dragos Toma-Danila, Basil Margaris, Yasin Fahjan, Georgios Panagopoulos, Christos Karakostas, Georgios Papathanassiou, Sotiris Valkaniotis (2023): Rapid Earthquake Damage Assessment System to support Earthquake Response. Safe Attica 2023. Safe Greece Conference Proceedings. ISSN 2654-1823.

Charalampos (Haris) Kontoes, Anastasios Anastasiadis, Georgios Panagopoulos, Constantinos Loupasakis, Konstantinos Chousianitis, Nikolaos Stathopoulos, Emmanouil Kirtas, Evi Riga, Kyriazis Pitilakis, Christos Karakostas, Sotiria Stefanidou, **Konstantinos Papatheodorou**, Elissavet Chatzicharalampous, Agavni Kaitantzian, Eleni Grigorakou (2023). The Application of a Holistic Methodology for the Seismic Risk Assessment in the Region of Attica, Greece. Safe Attica 2023. Safe Greece Conference Proceedings. ISSN 2654-1823.

**Konstantinos Papatheodorou**, Nikolaos Theodoulidis, Nikolaos Klimis, Can Zulfikar, Dragos Vintila, Vladlen Cardanet, Emmanuel Kirtas, Dragos Toma-Danila, Basil Margaris, Yasin Fahjan, Georgios Panagopoulos, Christos Karakostas, Georgios Papathanassiou, Sotiris Valkaniotis. Rapid Earthquake Damage Assessment and Public awareness raising actions, towards enhancing Community Resilience and Cross Border cooperation for Earthquake disaster mitigation. Second (2<sup>nd</sup>) Hybrid (physical-virtual real-time) Workshop in "Innovative Seismic Protection and Structural/Community Resilience". Civil Engineering Department, Democritus University of Thrace (DUTH), Conference Center, Xanthi, Greece.

**Konstantinos Papatheodorou**, Emmanouil Kirtas, Nikolaos Theodoulidis, Nikolaos Klimis, Can Zulfikar, Yasin Fahjan, Dragos Toma-Danila, Dragos Vintila, Vladlen Cardanet (2023): Improving Earthquake Emergency Response with Decision Supporting Systems & Public Education. International Conference : "Protecting water resources with nature-based solutions" PS4S-2023 24-26 May 2023, Drama Greece.

**K. Papatheodorou**, E. Kirtas, N. Theodoulidis, N. Klimis, C. Zulfikar, Y. Fahjan, D. Toma-Danila, V. Dragos, V. Cardanet (2023): "Improving Earthquake Resilience with Decision Supporting Systems and focused on the Public, Education" INTERNATIONAL CONFERENCE "Protecting water resources with nature-based solutions" "PS4S-2023", 24-26 May 2023.

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Nikolaos Klimis, **Konstantinos Papatheodorou**, Prodromos Moutsokapas, Basil Margaris (2013): "Landslide hazard assessment using GIS: evaluation of empirical prediction and implementation" International Conference on Earthquake Geotechnical Engineering, from Case Histories to Practice; In the Honor of Prof. Kenji Ishihara, 17-19 June 2013, Istanbul, Turkey. (*Only Invited Lecturers presented orally*).

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- 2016 Nikos Klimis, Konstantinos Papatheodorou, Eleni Petala, Emmanouel Psaroudakis (2016): Landslide Hazard Assessment on a Regional Scale: Reliability and Usability. “SafeEvros: New Technologies on the Civil Protection services” Conference minutes, 2016.
- 2015 Tsiamis A. **Papatheodorou K** and Perakis K. (2015): Geologic indices in locating mineral resources. Fourth Hellenic Conference of Planning and Regional Development, September 24-27, University of Thessaly, Volos, Greece (<http://conferenceprd4.prd.uth.gr>)
- 2014 Ntouro Konstantinos, Konstantinidis Alexandros, **Papatheodorou Konstantinos**, Evangelidis Konstantinos (2014): Natural resources management using GI “Cloud Computing” Systems (CloudGIS). Proceedings of the 8<sup>th</sup> Hellenic Conference HellasGIS, 11-12 December 2014, Athens.
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- 2011 **Papatheodorou C.** and Peristeri A. (2011): Exploratory geophysical research using Ground Penetrating Radar in Kastas Tomb, Amfipoli, Greece. ΚΔ’ (24<sup>th</sup>) Scientific meeting “Archaeological research in Macedonia and Thrace”, March 2011, Aristotle University of Thessaloniki & Ministry of Culture & Tourism, Thessaloniki, Greece.
- 2010 Moutsokapas P., **Papatheodorou C.**, Margaris V and Klimis N. (2010): Landslide hazard pre-estimation methods using Geographic Information Systems: method evaluation and implementation in Magnissia prefecture, Greece. 6<sup>th</sup> Hellenic Conference on Geotechnical & Geoenvironmental Engineering, Volos, Greece.
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